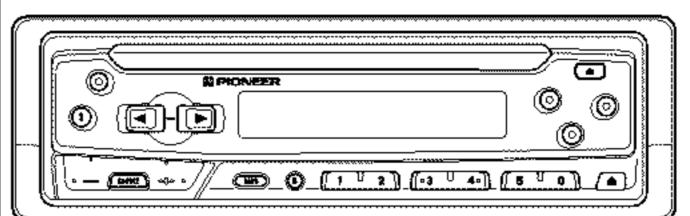


Service Manual

DEH-345R/X1M/EW



ORDER NO. CRT2103

HIGH POWER CD PLAYER WITH RDS TUNER

DEH-344R XIM/GR

XIM/EW



- See the separate manual CX-597(CRT1829) for the CD mechanism description, disassembly and circuit description.
- The CD mechanism employed in this model is one of S7 series.

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PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan

PIONEER ELECTRONICS SERVICE INC. P.O.Box 1760, Long Beach, CA 90801-1760 U.S.A.

PIONEER ELECTRONIC [EUROPE] N.V. Haven 1087 Keetberglaan 1, 9120 Melsele, Belgium

PIONEER ELECTRONICS ASIACENTRE PTE.LTD. 501 Orchard Road, #10-00, Lane Crawford Place, Singapore 0923

CD Player Service Precautions

- For pickup unit(CXX1230) handling, please refer to "Disassembly" (CX-597 Service Manual CRT1829).
 During replacement, handling precautions shall be taken to prevent an electrostatic discharge (protection by a short pin).
- 2. During disassembly, be sure to turn the power off since an internal IC might be destroyed when a connector is plugged or unplugged.
- 3. Please checking the grating after changing the service pickup unit(see page 59).

1. SAFETY INFORMATION

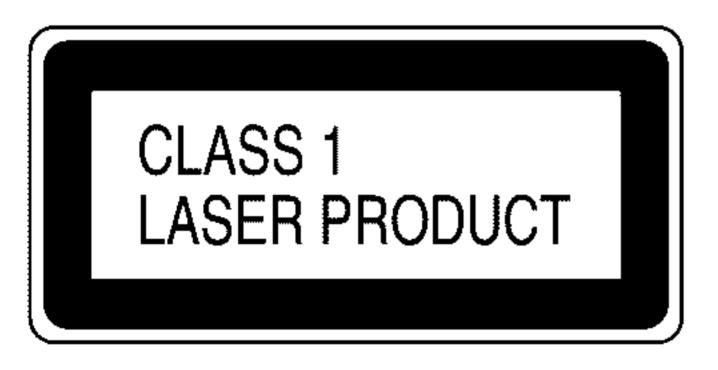
This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

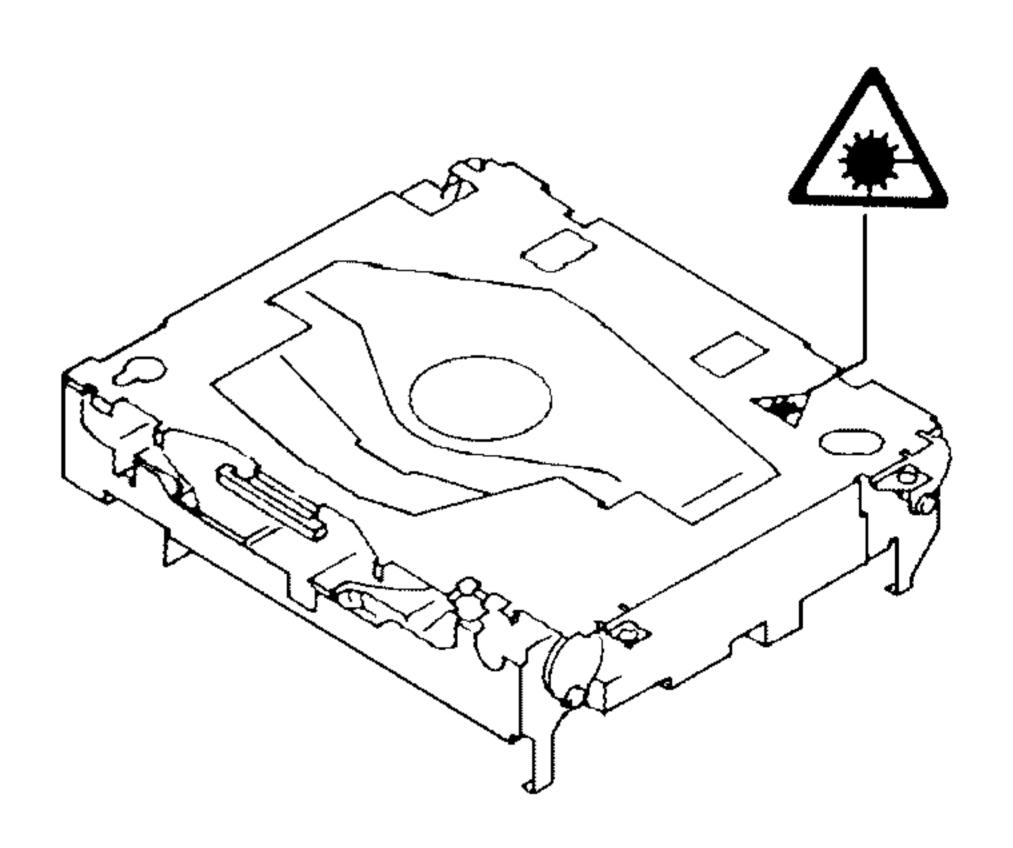
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely; you should not risk trying to do so and refer the repair to a qualified service technician.

- 1. Safety Precautions for those who Service this Unit.
- When checking or adjusting the emitting power of the laser diode exercise caution in order to get safe, reliable results.

Caution:

- 1. During repair or tests, minimum distance of 13cm from the focus lens must be kept.
- 2. During repair or tests, do not view laser beam for 10 seconds or longer.
- 2. A "CLASS 1 LASER PRODUCT" label is affixed to the rear of the player.
- 3. The triangular label is attached to the mechanism unit frame.





4. Specifications of Laser Diode

Specifications of laser radiation fields to which human access is possible during service.

Wavelength = 800 nanometers

2. EXPLODED VIEWS AND PARTS LIST

2.1 PACKING

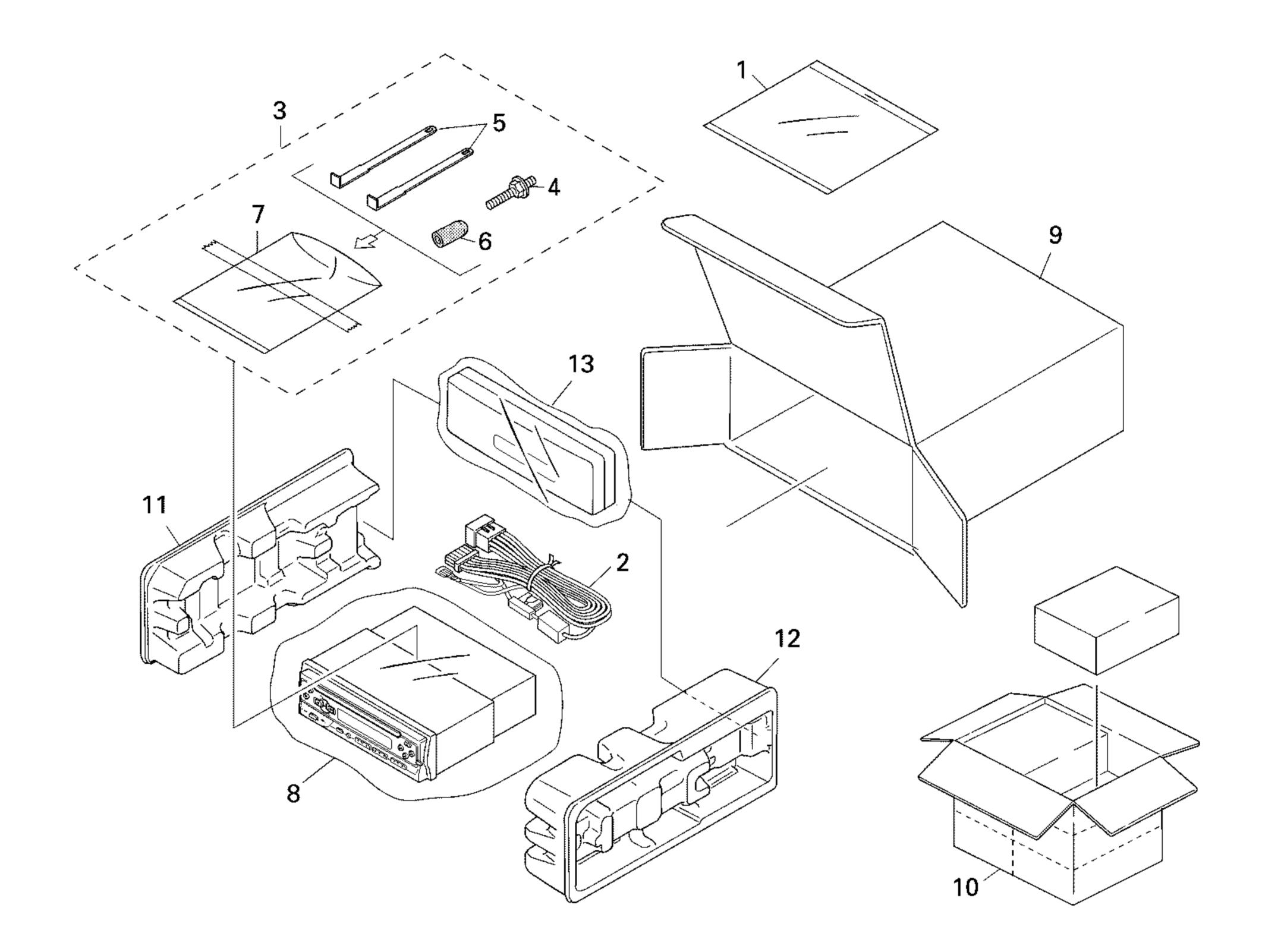


Fig. 1

NOTE:

- Parts marked by "*"are generally unavailable because they are not in our Master Spare Parts List.
- lacktriangle Screws adjacent to ∇ mark on the product are used for disassembly.

PACKING SECTION PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	1-1	Polyethylene Bag	CEG1116		5	Handle	CNC5395
	1-2	Owner's Manual	CRD2485		6	Bushing	CNV3930
		(DEH-345R/X1M/EW)		*	7	Polyethylene Bag	E36-615
		(DEH-344R/X1M/EW)			8	Polyethylene Bag	CEG-162
		Owner's Manual (DEH-343R/X1M/GR)	CRB1405		9	Carton(DEH-345R/X1M/EW)	CHG3380
						Carton(DEH-344R/X1M/EW)	CHG3381
	1-3	Owner's Manual	CRD2486			Carton(DEH-343R/X1M/GR)	CHG3385
		(DEH-345R/X1M/EW)			10	Contain Box	CHL3380
		(DEH-344R/X1M/EW)				(DEH-345R/X1M/EW)	
	1-4	Owner's Manual	CRD2487			Contain Box	CHL3381
		(DEH-345R/X1M/EW) (DEH-344R/X1M/EW)				(DEH-344R/X1M/EW)	
						Contain Box	CHL3385
	1-5	Installation Manual	CRD2488			(DEH-343R/X1M/GR)	
		(DEH-345R/X1M/EW)			11	Protector	CHP1768
		(DEH-344R/X1M/EW)			12	Protector	CHP1769
		Installation Manual (DEH-343R/X1M/GR)	CRB1406		13	Case Assy	CXB1063
*	1-6	Passport	CRY1013				
*	1-7	Warranty Card	CRY1087				
	2	Cord Assy	CDE5488				
	3	Accessory Assy	CEA1917				
	4	Screw	CBA1304				

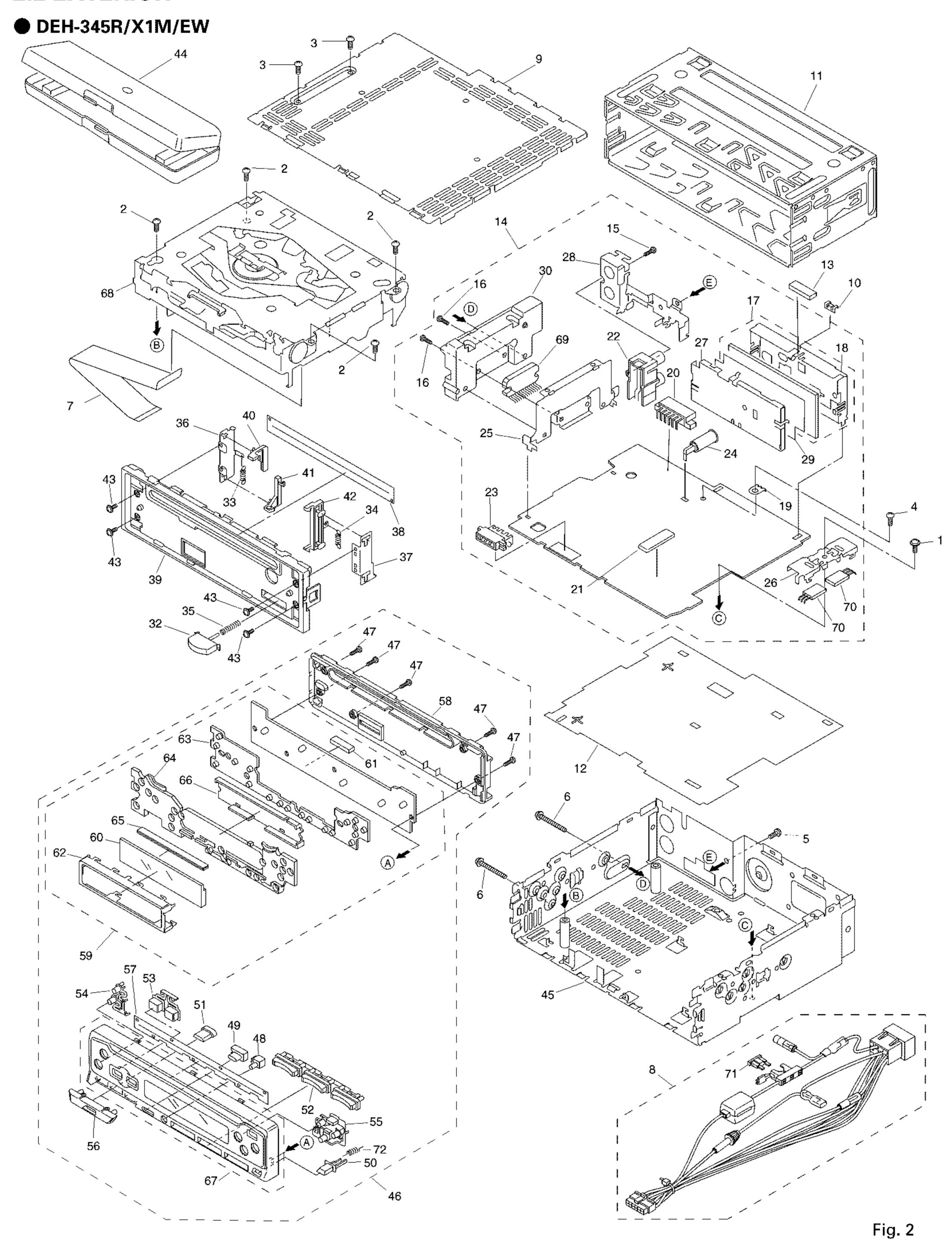
Owner's Manual

Model	Part No.	Language
DEH-345R/X1M/EW	CRD2485	English, Spanish
DEH-344R/X1M/EW	CRD2486	German, French
	CRD2487	Italian, Dutch
DEH-343R/X1M/GR	CRB1405	German

Installation Manual

Model	Part No.	Language
DEH-345R/X1M/EW, DEH-344R/X1M/EW	CRD2488	English, Spanish, German, French, Italian, Dutch
DEH-343R/X1M/GR	CRB1406	German

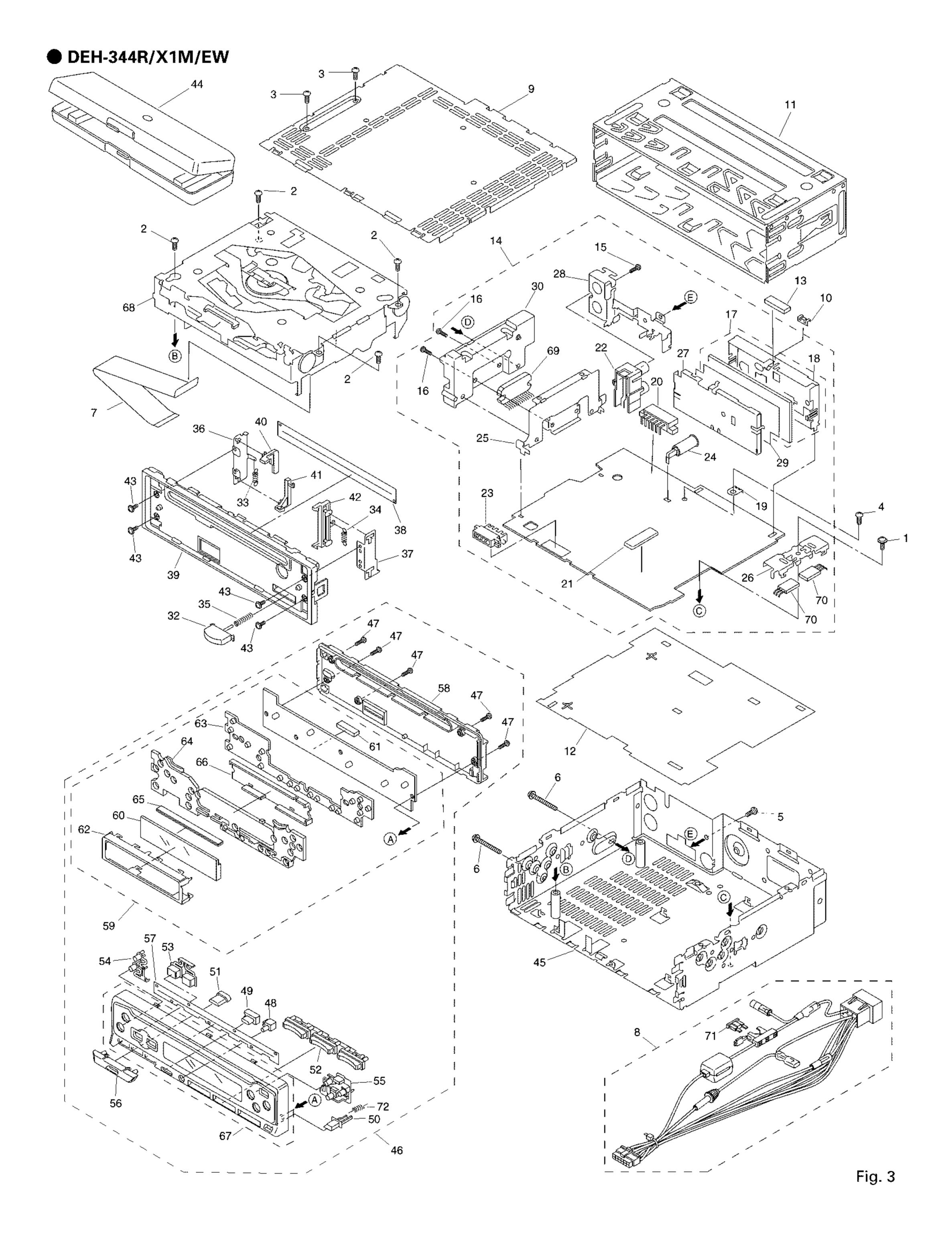
2.2 EXTERIOR



EXTERIOR SECTION PARTS LIST

● DEH-345R/X1M/EW

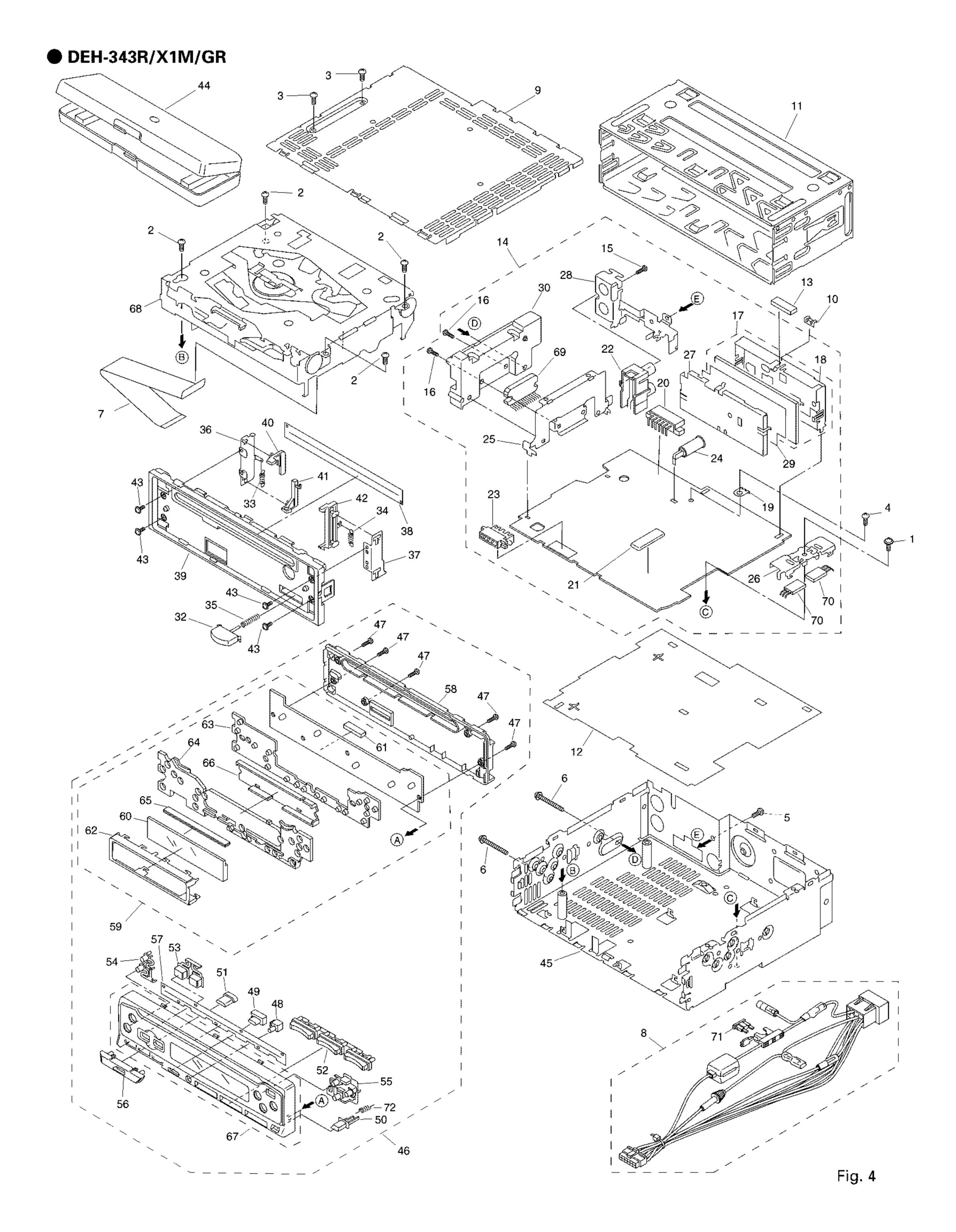
Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Screw	ASZ26P080FMC	46	Detach Grille Assy	CXB1792
2	Screw	BSZ26P050FMC	47	Screw	BPZ20P100FZK
3	Screw	BSZ30P050FMC	48	Button(BSM)	CAC4906
4	Screw	BSZ30P055FUC	49	Button(BAND)	CAC4907
5	Screw	BSZ30P060FMC		Button(DETACH)	CAC4908
_					
6	Screw	BSZ30P160FMC	51	Button(SOURCE)	CAC5346
7	Cable	CDE4869		Button(1-6)	CAC5347
	Cord Assy	CDE5488		Button(TRACK UP DOWN)	CAC5529
	Case	CNB1989		Button(LOC,CLOCK)	CAC5530
	Holder	CNC6469		Button(EJECT)	CAC5531
,,	1101001	0,400400	00		0/100001
11	Holder	CNC6798	56	Button(+ -)	CAC5533
	Insulator	CNM5067		Cover	CNM4704
. —	Cushion	CNM5210		Cover	CNS4203
	Tuner Amp Unit	CWM5562		Keyboard Unit	CWM5571
	Screw	BPZ26P120FMC		LCD(LCD1801)	CAW1453
1.0	SCIEVV	Di ZZOL IZOLIVIC	00	LCD(LCD 1001)	CAVV 1433
16	Screw	BSZ26P120FMC	61	Connector(CN1801)	CKS3580
_	FM/AM Tuner Unit	CWE1466		Holder	CNC6872
	Holder	CNC6554		Contact Rubber	CNV5116
	Terminal(CN503)	CKF1059		Lighting Conductor	CNV5110
	·	CKM1225		Connector	CNV5119 CNV5149
20	Plug(CN951)	CICIVI IZZO	63	Connector	CIVOTAS
21	Connector(CN681)	CKS2228	66	Housing	CNV5171
	Connector(CN421)	CKS3357		Grille Unit	CXB2092
	Connector(CN651)	CKS3581	_	CD Mechanism Module	CXK5003
	Antenna Jack(CN501)	CKX1056		IC(IC551)	TDA7384A
	Holder	CNC6131		Transistor(Q981,991)	2SD2396
25	noidei	CIVCOISI	70	Hansistor(Q301,331)	2302390
26	Holder	CNC6132	71	Fuse(10A)	CEK1136
	Holder	CNC6356		Spring	CBH2103
	Holder	CNC7360	, _	opinig	ODITE 100
	Insulator	CNM4684			
	Heat Sink	CNR14004			
30	Heat Silk	CIVILIAO			
31					
	Button	CAC4836			
	Spring	CBH1834			
	Spring	CBH1835			
	Spring	CBH1996			
33	Spring	CDF11330			
36	Bracket	CNC6135			
	Bracket	CNC6791			
	Cover	CNM4875			
	Panel	CNS4210			
	Arm	CNV4692			
40		C14 V 403Z			
41	Arm	CNV4693			
	Arm	CNV4728			
	Screw	IMS20P030FZK			
	Case Assy	CXB1063			
	Chassis Unit	CXB1003 CXB1779			
40	Uliassis Uliil	CADITIO			



EXTERIOR SECTION PARTS LIST

DEH-344R/X1M/EW

Mark No.	Description	Part No.	Mark	No.	Description	Part No.
1	Screw	ASZ26P080FMC		46	Detach Grille Assy	CXB1793
2	Screw	BSZ26P050FMC		47	Screw	BPZ20P100FZK
3	Screw	BSZ30P050FMC		48	Button(BSM)	CAC4906
4	Screw	BSZ30P055FUC		49	Button(BAND)	CAC4907
5	Screw	BSZ30P060FMC			Button(DETACH)	CAC4913
_						
6	Screw	BSZ30P160FMC		51	Button(SOURCE)	CAC5346
7	Cable	CDE4869		52	Button(1-6)	CAC5348
8	Cord Assy	CDE5488		53	Button(TRACK UP DOWN)	CAC5413
9	Case	CNB1989		54	Button(LOC,CLOCK)	CAC5414
10	Holder	CNC6469		55	Button(EJECT)	CAC5415
11	Holder	CNC6798		56	Button(+)	CAC5350
12	Insulator	CNM5067		57	Cover	CNM4704
13	Cushion	CNM5210		58	Cover	CNS4264
14	Tuner Amp Unit	CWM5562		59	Keyboard Unit	CWM5572
	Screw	BPZ26P120FMC			LCD(LCD1801)	CAW1453
16	Screw	BSZ26P120FMC		61	Connector(CN1801)	CKS3580
17	FM/AM Tuner Unit	CWE1466		62	Holder	CNC6872
18	Holder	CNC6554		63	Contact Rubber	CNV5116
19	Terminal(CN503)	CKF1059		64	Lighting Conductor	CNV5119
	Plug(CN951)	CKM1225			Connector	CNV5149
21	Connector(CN681)	CKS2228		66	Housing	CNV5171
22	Connector(CN421)	CKS3357		67	Grille Unit	CXB2093
23	Connector(CN651)	CKS3581		68	CD Mechanism Module	CXK5003
24	Antenna Jack(CN501)	CKX1056		69	IC(IC551)	TDA7384A
	Holder	CNC6131			Transistor(Q981,991)	2SD2396
26	Holder	CNC6132		71	Fuse(10A)	CEK1136
27	Holder	CNC6356		72	Spring	CBH2103
28	Holder	CNC7360				
29	Insulator	CNM4684				
30	Heat Sink	CNR1407				
31						
32	Button	CAC4836				
33	Spring	CBH1834				
34	Spring	CBH1835				
35	Spring	CBH1996				
36	Bracket	CNC6135				
37	Bracket	CNC6791				
38	Cover	CNM4875				
39	Panel	CNS4265				
40	Arm	CNV4692				
	_					
	Arm	CNV4693				
	Arm	CNV4728				
	Screw	IMS20P030FZK				
	Case Assy	CXB1063				
45	Chassis Unit	CXB1826				



EXTERIOR SECTION PARTS LIST

DEH-343R/X1M/GR

Mark No.	Description	Part No.	Mark N	No.	Description	Part No.
1	Screw	ASZ26P080FMC		46	Detach Grille Assy	CXB1794
2	Screw	BSZ26P050FMC		47	Screw	BPZ20P100FZK
3	Screw	BSZ30P050FMC		48	Button(BSM)	CAC4906
4	Screw	BSZ30P055FUC			Button(BAND)	CAC4907
	Screw	BSZ30P060FMC			Button(DETACH)	CAC4913
Ů	00.01	DOE001 0001 1110		VV	Datton(DE 17 toll)	0, 10 10
6	Screw	BSZ30P160FMC		51	Button(SOURCE)	CAC5346
7	Cable	CDE4869		52	Button(1-6)	CAC5348
8	Cord Assy	CDE5488		53	Button(TRACK UP DOWN)	CAC5413
	Case	CNB1989			Button(LOC,CLOCK)	CAC5414
	Holder	CNC6469			Button(EJECT)	CAC5415
11	Holder	CNC6798		56	Button(+ -)	CAC5350
12	Insulator	CNM5067		57	Cover	CNM4704
13	Cushion	CNM5210		58	Cover	CNS4264
	Tuner Amp Unit	CWM5563			Keyboard Unit	CWM5572
	Screw	BPZ26P120FMC			LCD(LCD1801)	CAW1453
, ,	~~1 ~ # #					OF THE FILLS
16	Screw	BSZ26P120FMC		61	Connector(CN1801)	CKS3580
	FM/AM Tuner Unit	CWE1470			Holder	CNC6872
	Holder	CNC6554			Contact Rubber	CNV5116
	Terminal(CN503)	CKF1059			Lighting Conductor	CNV5110
	Plug(CN951)	CKM1225			Connector	CNV5113
20	riug(Civosi)	CKWIZZ		05	Connector	C1473143
21	Connector(CN681)	CKS2228		66	Housing	CNV5171
	Connector(CN421)	CKS3357			Grille Unit	CXB2094
	Connector(CN651)	CKS3581			CD Mechanism Module	CXK5003
	Antenna Jack(CN501)	CKX1056			IC(IC551)	TDA7384A
	Holder	CNC6131			Transistor(Q981,991)	2SD2396
20	noidei	CINCOISI		70	11 a11515(01(0301,331)	2302330
26	Holder	CNC6132		71	Fuse(10A)	CEK1136
	Holder	CNC6356			Spring	CBH2103
	Holder	CNC7360		,	Opinig	05/12/00
	Insulator	CNM4684				
	Heat Sink	CNR1407				
30	Heat Silik	CIVIL 1407				
31						
	Button	CAC4836				
	Spring	CBH1834				
	Spring	CBH1835				
	Spring	CBH1996				
33	Spring	CDiliboo				
36	Bracket	CNC6135				
	Bracket	CNC6791				
	Cover	CNM4875				
	Panel	CNS4265				
	Arm	CNV4692				
40	71131	CIV V 4UJZ				
41	Arm	CNV4693				
42	Arm	CNV4728				
	Screw	IMS20P030FZK				
	Case Assy	CXB1063				
	Chassis Unit	CXB1777				
40	J. Idoord Offic					

2.3 CD MECHANISM MODULE

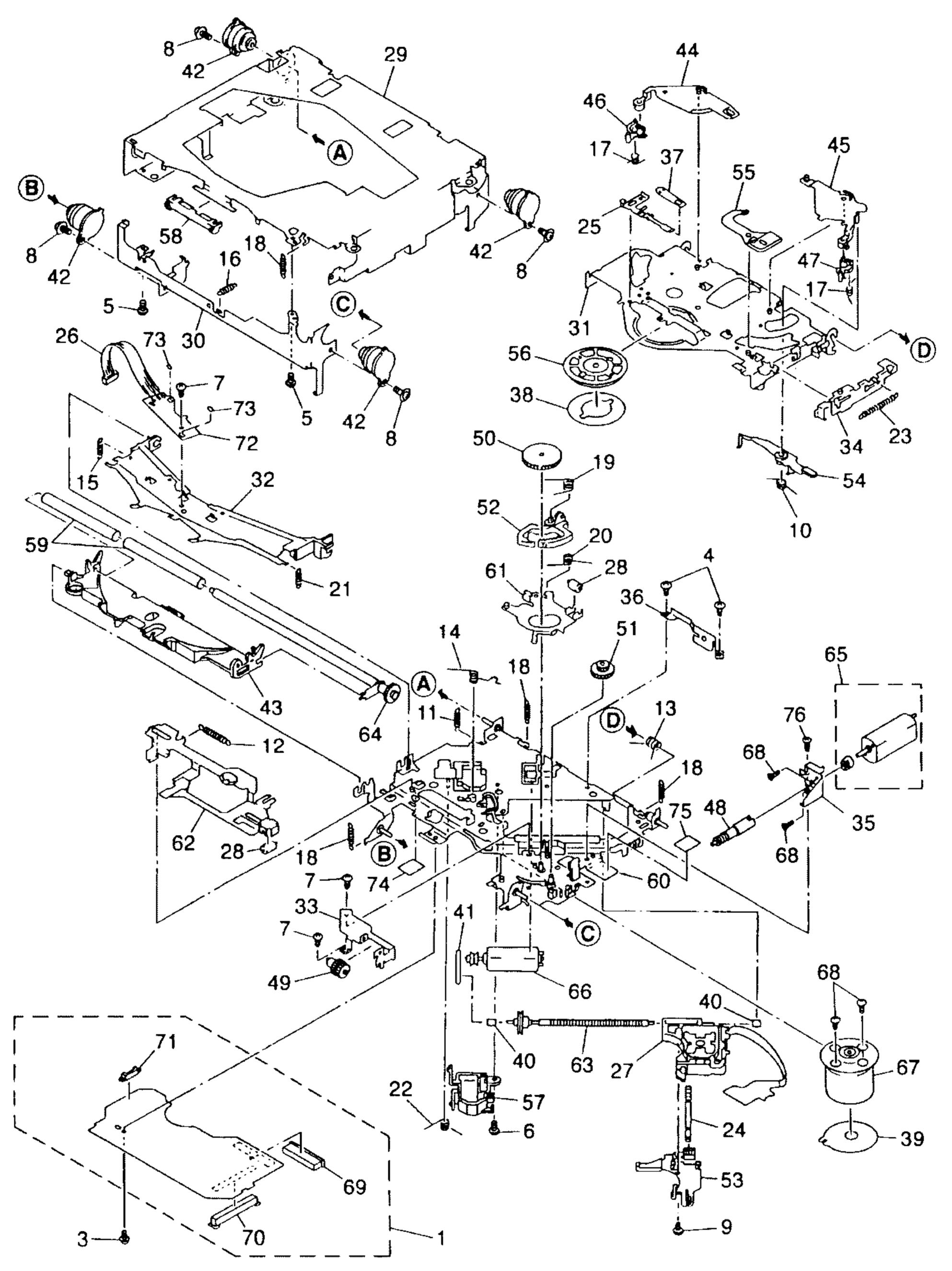


Fig. 5

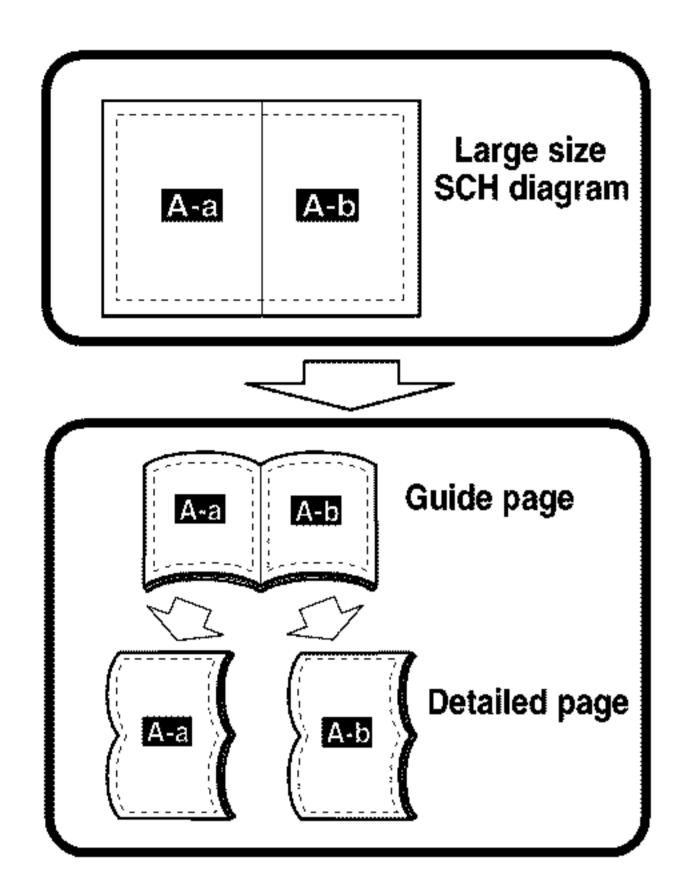
● CD MECHANISM MODULE SECTION PARTS LIST

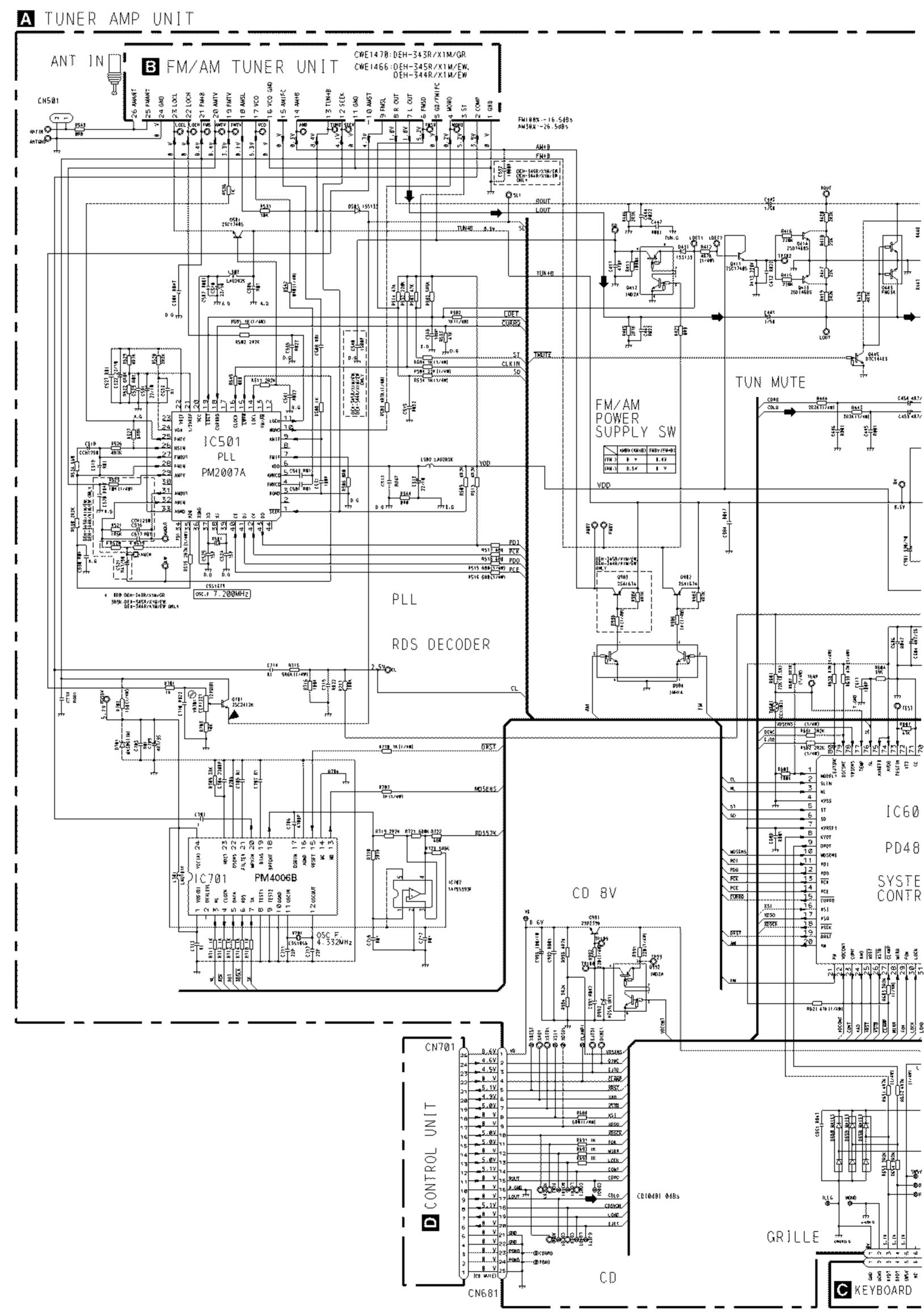
Mark 1	Vo.	Description	Part No.	Mark	No.	Description	Part No.
	1	Control Unit	CWX2210		46	Arm	CNV4124
	2				47	Arm	CNV4125
	3	Screw	IMS26P035FMC		48	Gear	CNV4128
	4	Screw	BMZ20P040FMC		49	Gear	CNV4129
	5	Screw	BSZ20P040FMC		50	Gear	CNV4130
	6	Screw(M2×3)	CBA1077		51	Gear	CNV4131
	7	Screw(M2×2)	CBA1250		52	Arm	CNV4136
	8	Screw(M2×5)	CBA1296		53	Holder	CNV4663
	9	Screw(M2×3.85)	CBA1362		54	Arm	CNV4138
	10	Spring	CBH1945		55	Arm	CNV4139
		Spring	CBH1724			Clamper	CNV4712
		Spring	CBH1939		57	Holder	CNV5034
	13	Spring	CBH1729		58	Guide	CNV4484
	14	Spring	CBH1730		59	Roller	CNV4509
	15	Spring	CBH1731		60	Chassis Unit	CXA8561
	16	Spring	CBH1732		61	Arm Unit	CXA8565
	17	Spring	CBH1736		62	Lever Unit	CXA9300
	18	Spring	CBH1745		63	Screw Unit	CXA9388
	19	Spring	CBH1832		64	Gear Unit	CXA9389
	20	Spring	CBH1833		65	Load Motor Unit(M3)	CXA9391
	21	Spring	CBH1848			CRG Motor Unit(M2)	CXA9392
	22	Spring	CBH1849	*	67	Motor Unit(M1)	CXA9407
		Spring	CBH1863		68	Screw	JFZ20P025FMC
	24	Spring	CBL1214		69	Connector(CN101)	CKS1953
	25	Spring	CBL1269		70	Connector(CN701)	CKS2774
		Connector(CN1)	CDE4576			Connector(CN801)	CKS2196
		Pickup Unit(Service)	CXX1230	*		Gathering PCB	CNX2445
		Roller	CLA2627			Photo-transistor(Q1, 2)	CPT-230S-X
		Frame	CNC5796			Sheet	CNM4873
	30	Frame	CNC5797		75	Cushion	CNM3917
••		Arm	CNC7206		76	Screw	BMZ20P025FMC
		Arm	CNC7383				
		Bracket	CNC5871				
		Lever	CNC6054				
	35	Bracket	CNC6056				
		Bracket	CNC6376				
		Spacer	CNM3315				
		Sheet	CNM4849				
		PCB	CNP4230				
	40	Bearing	CNR1415				
		Belt	CNT1071				
		Damper	CNV3974				
		Arm	CNV4120				
		Arm	CNV4122				
	45	Arm	CNV5033				

3. SCHEMATIC DIAGRAM

3.1 OVERALL CONNECTION DIAGRAM(GUIDE PAGE)

Note: When ordering service parts, be sure to refer to "EXPLODED VIEWS AND PARTS LIST" or "ELECTRICAL PARTS LIST".





A

1 /1

2

3

A-b

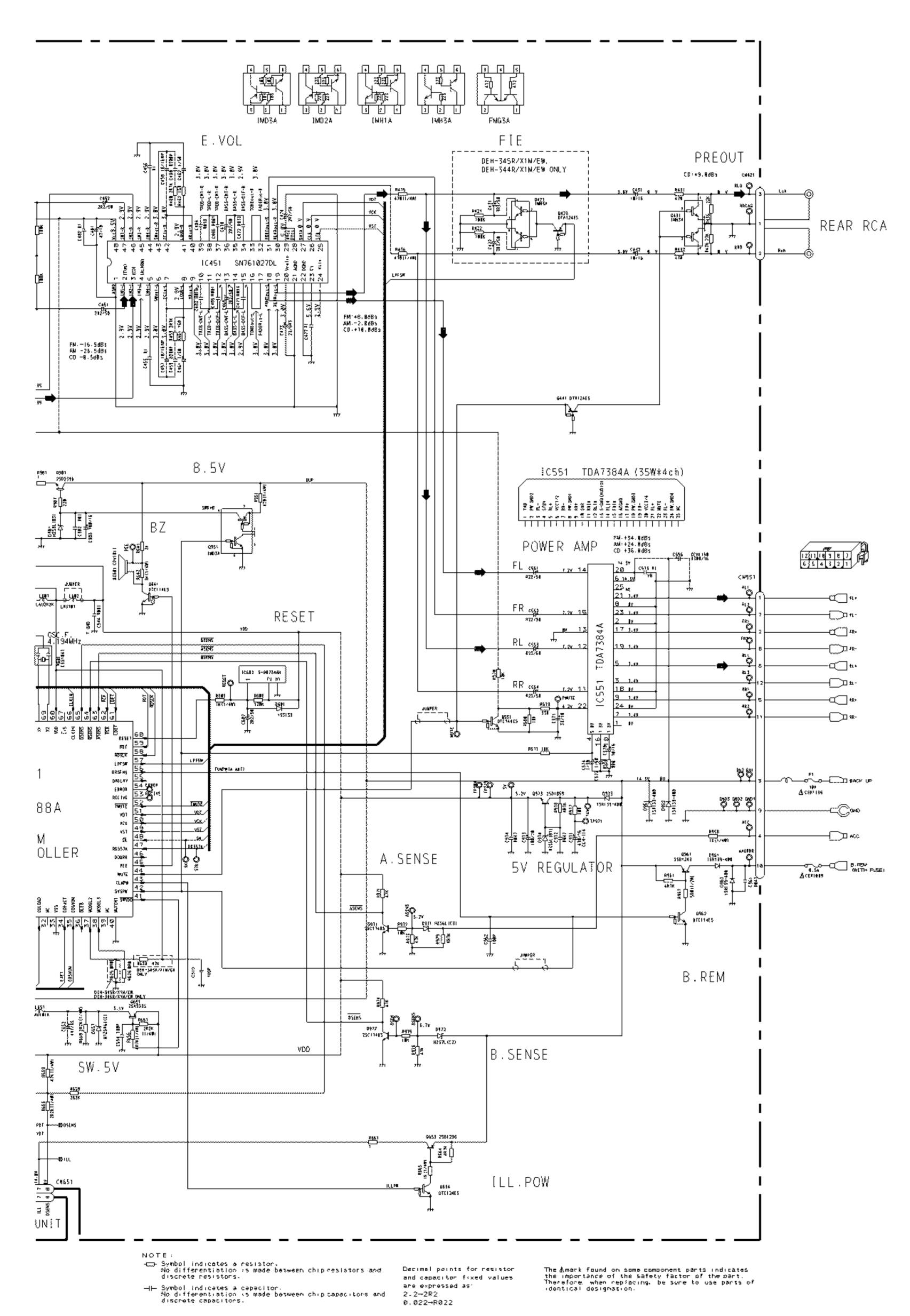
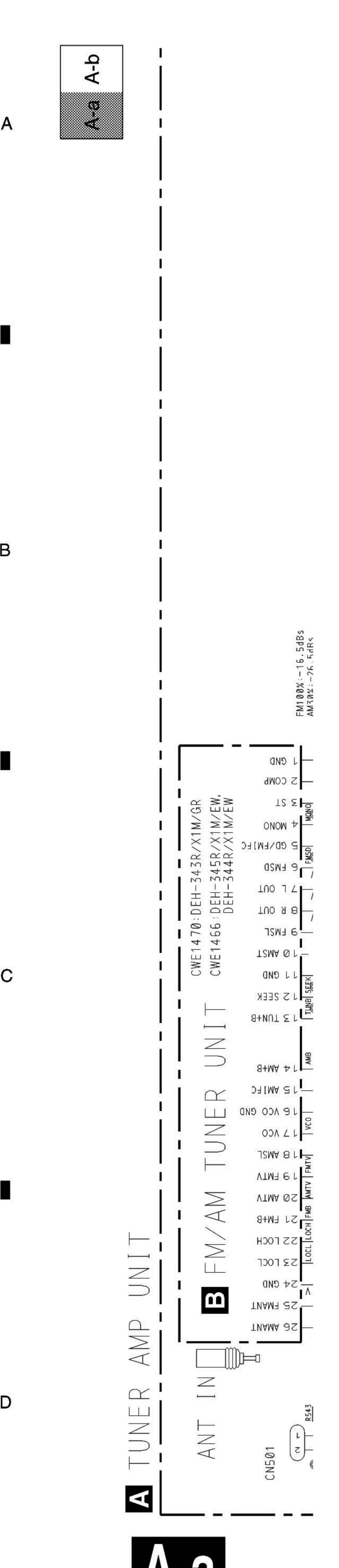
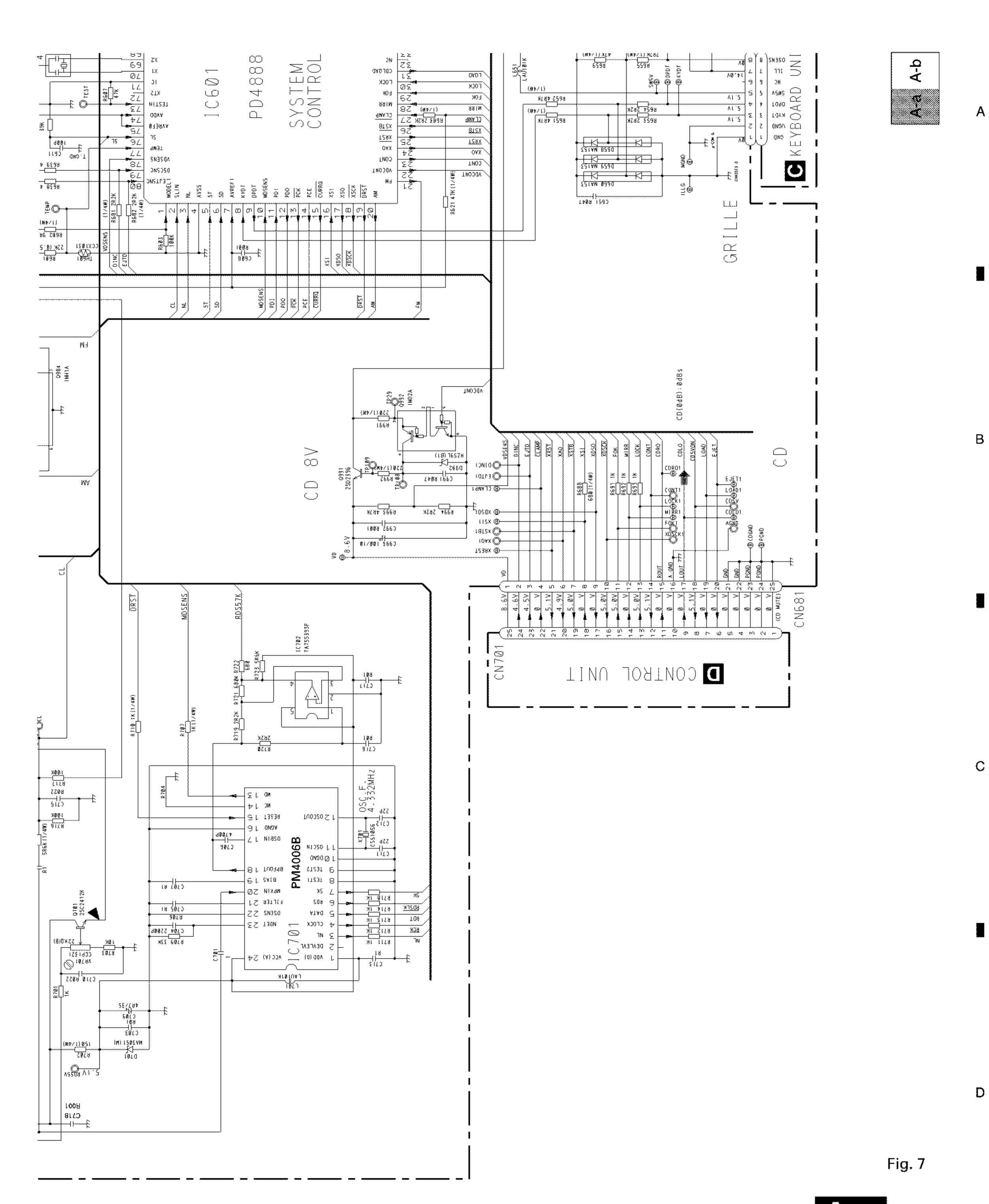


Fig. 6

В



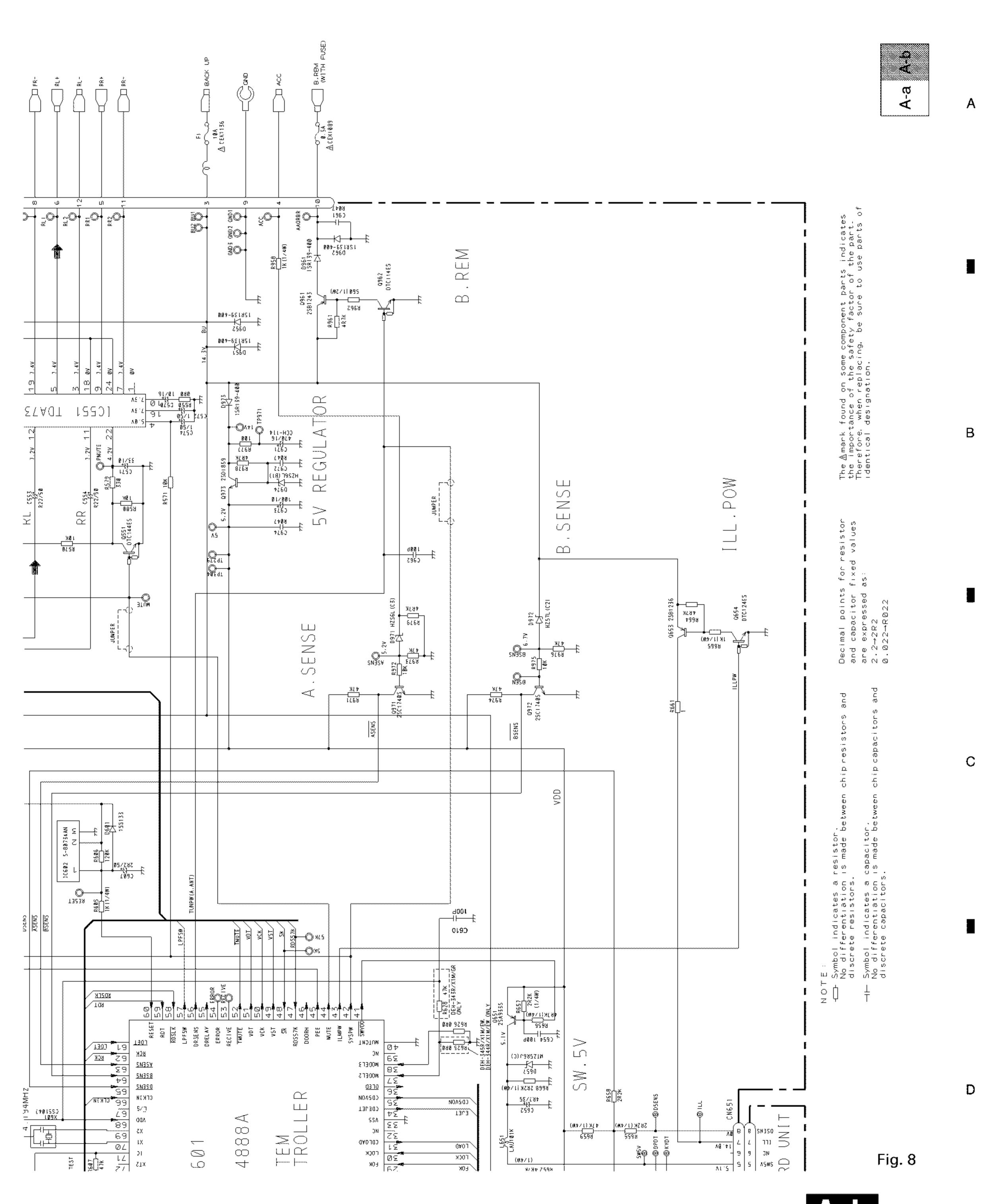


6

5

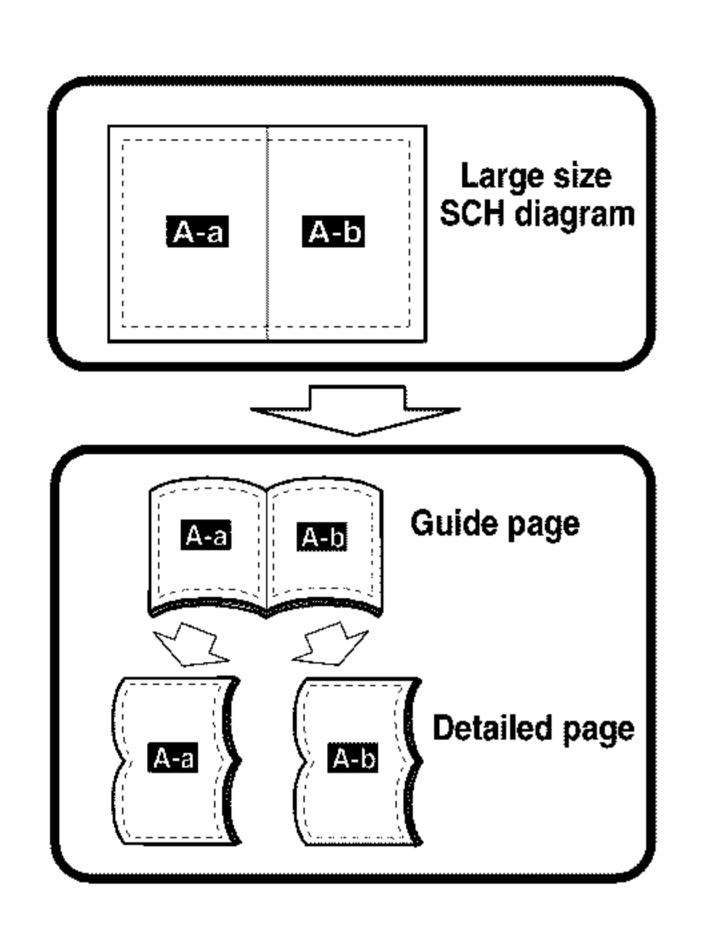
A-a

3

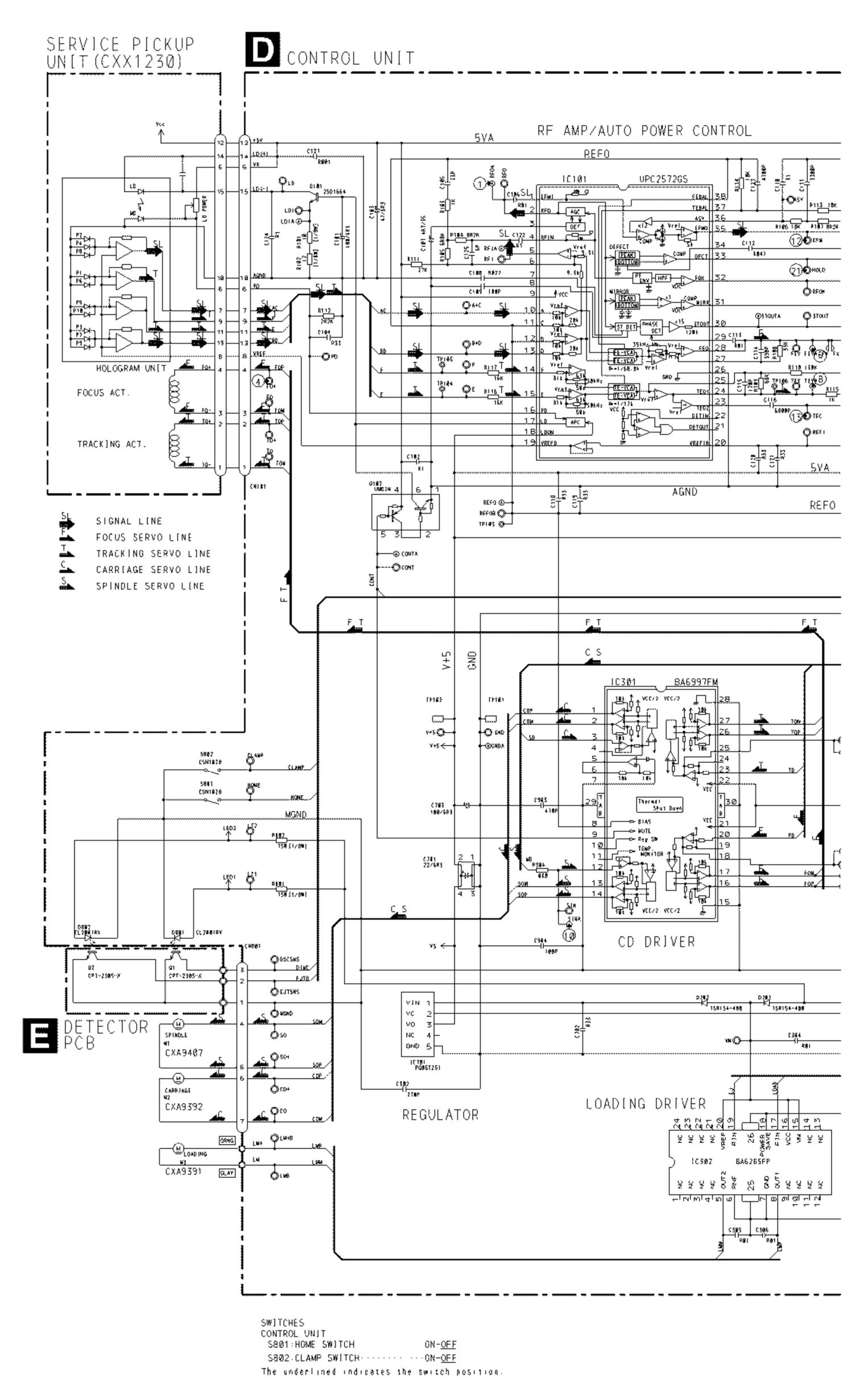


A-0

3.2 CD MECHANISM MODULE(GUIDE PAGE)







3

4

D-b

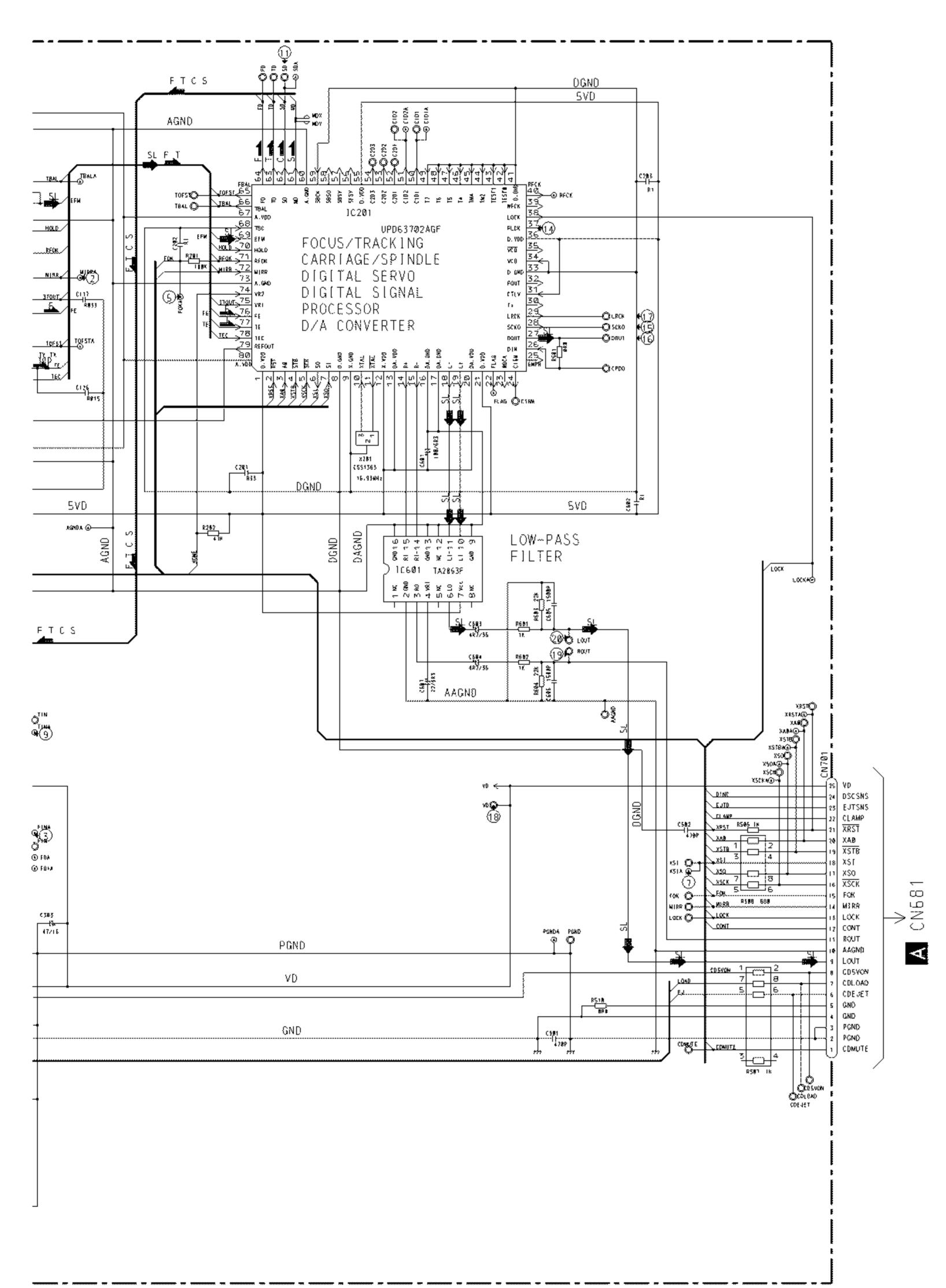


Fig. 9

D

В

5

FOCUS

P18

22

3

S L S

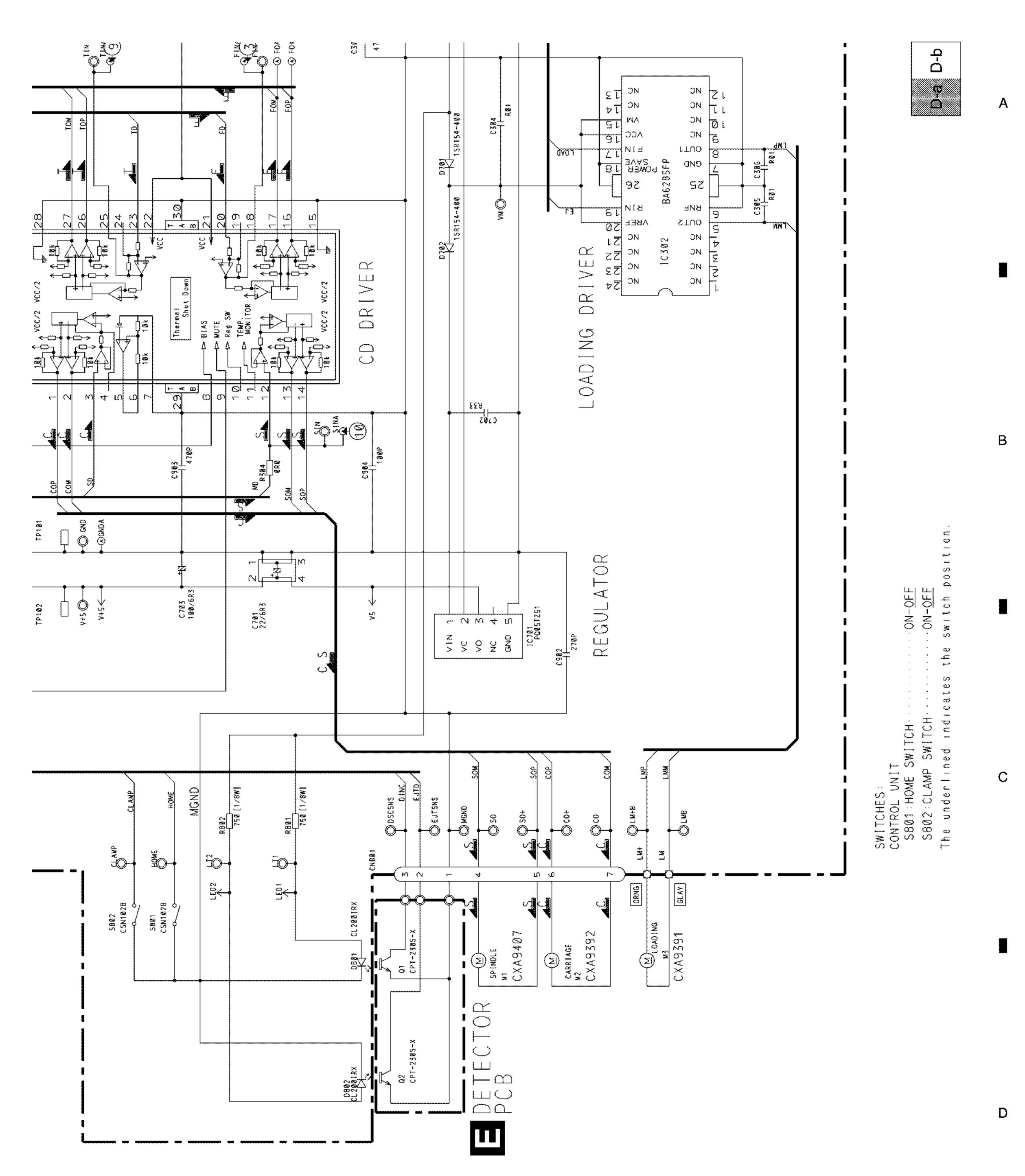
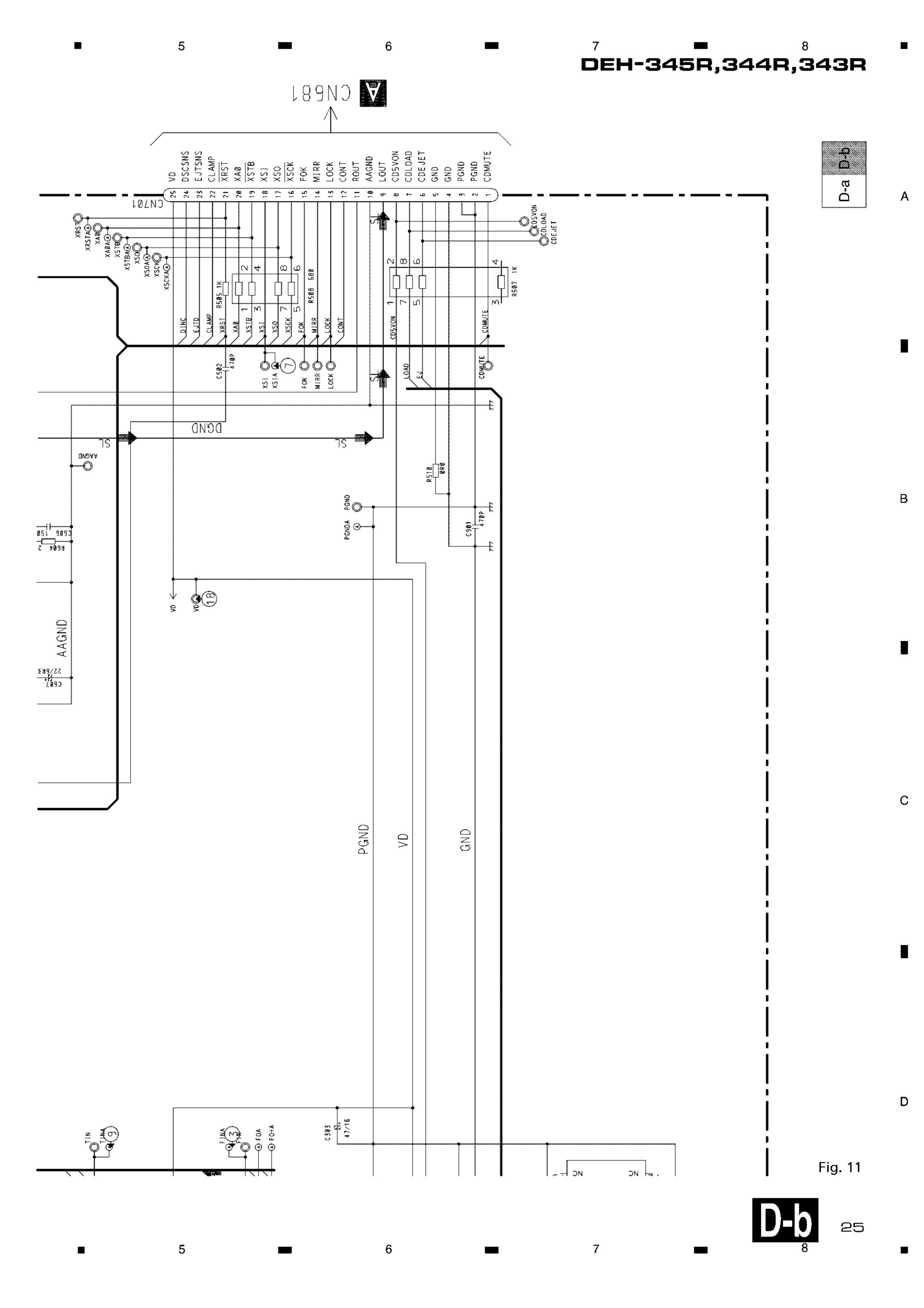


Fig. 10

— 6 **—**

5

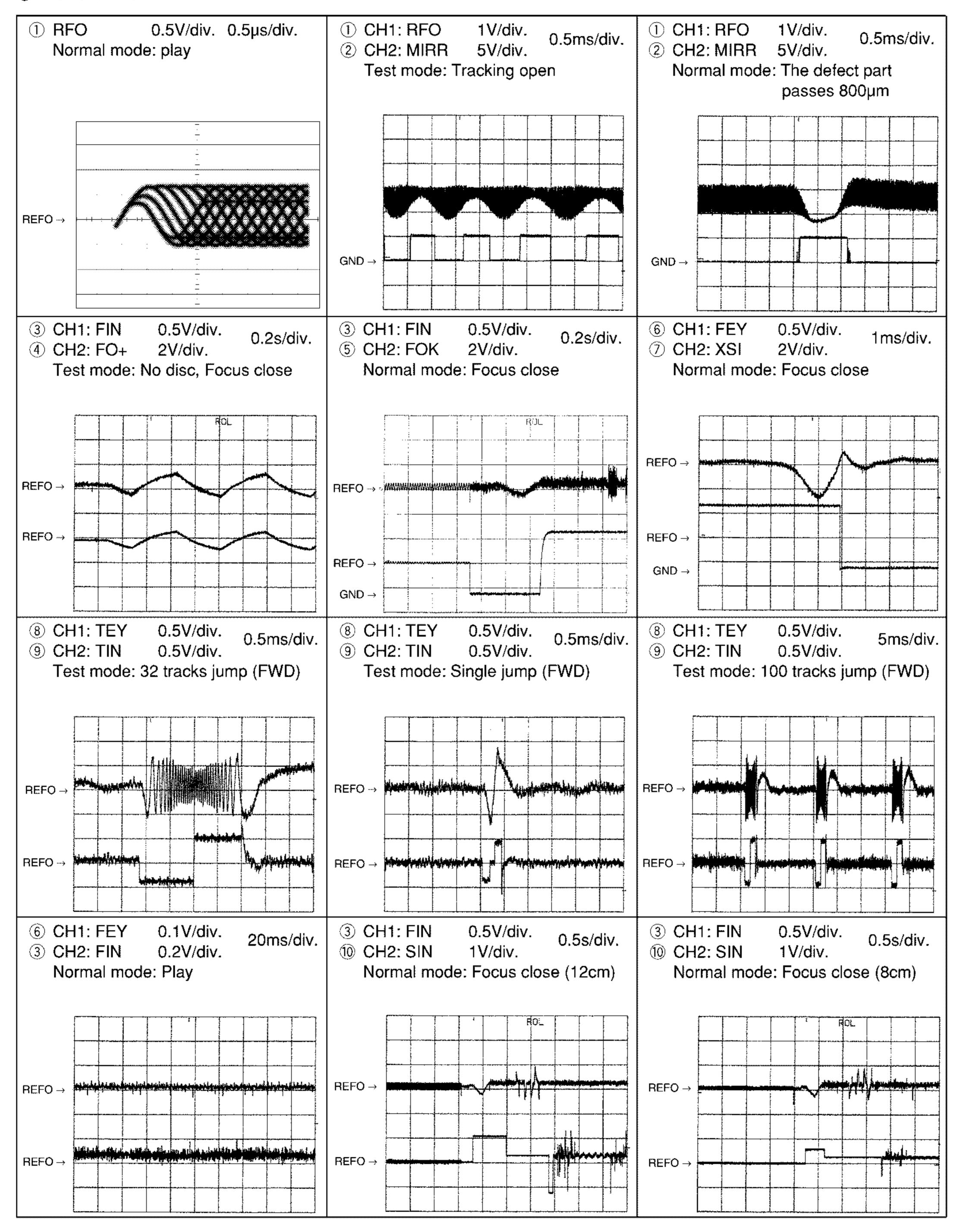
3

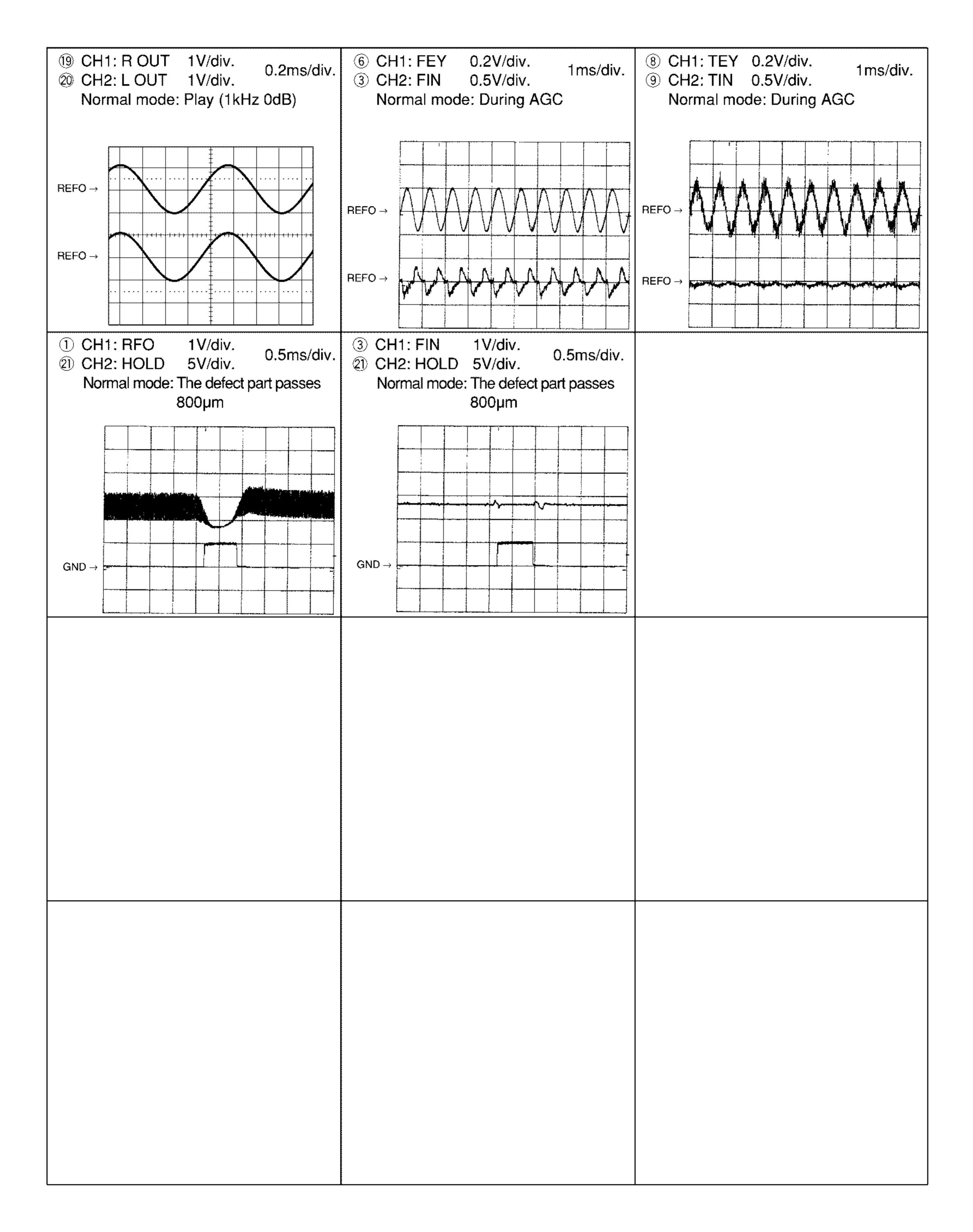


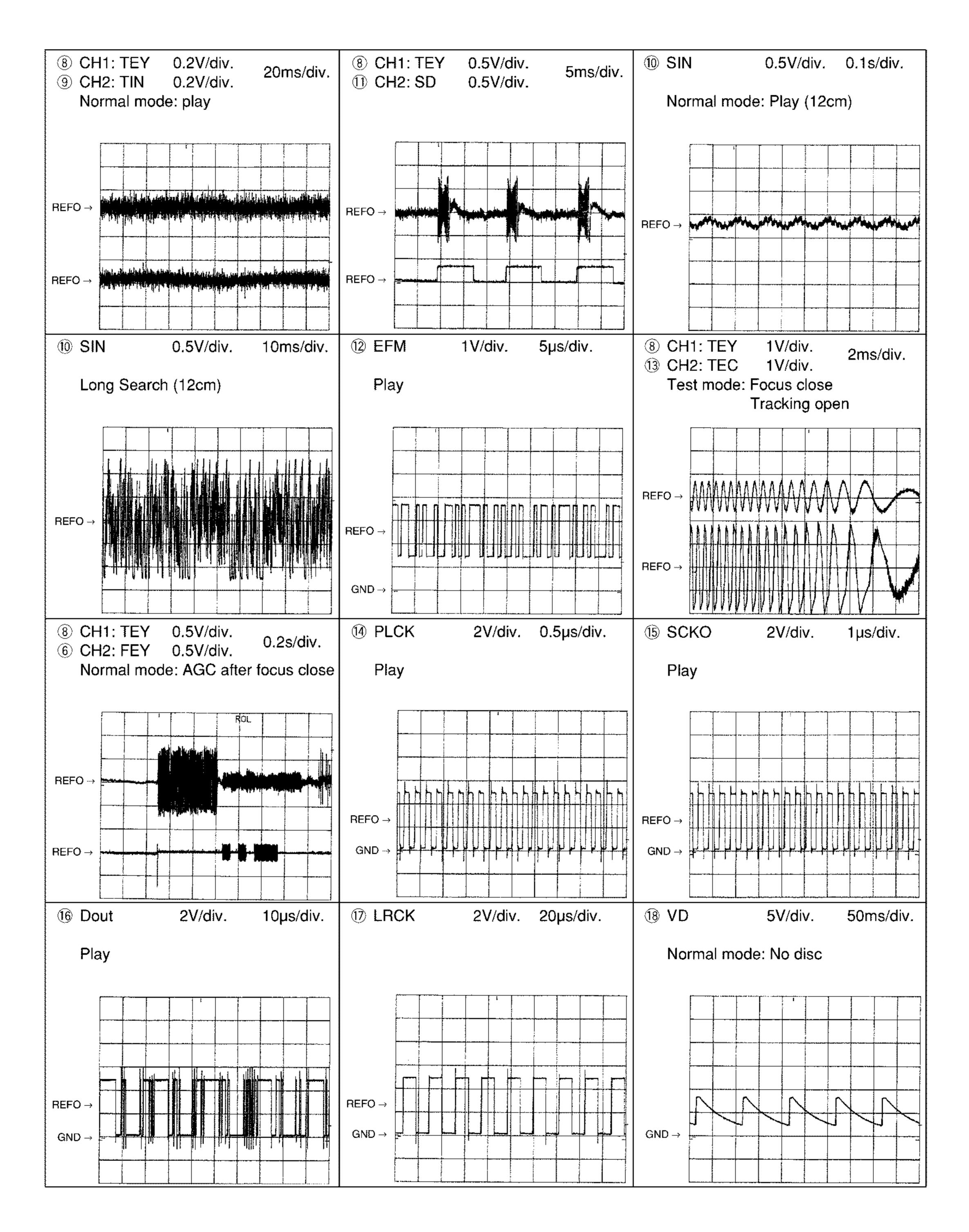
Note: 1. The encircled numbers denote measuring pointes in the circuit diagram.

2. Reference voltage REFO:2.5V

Waveforms

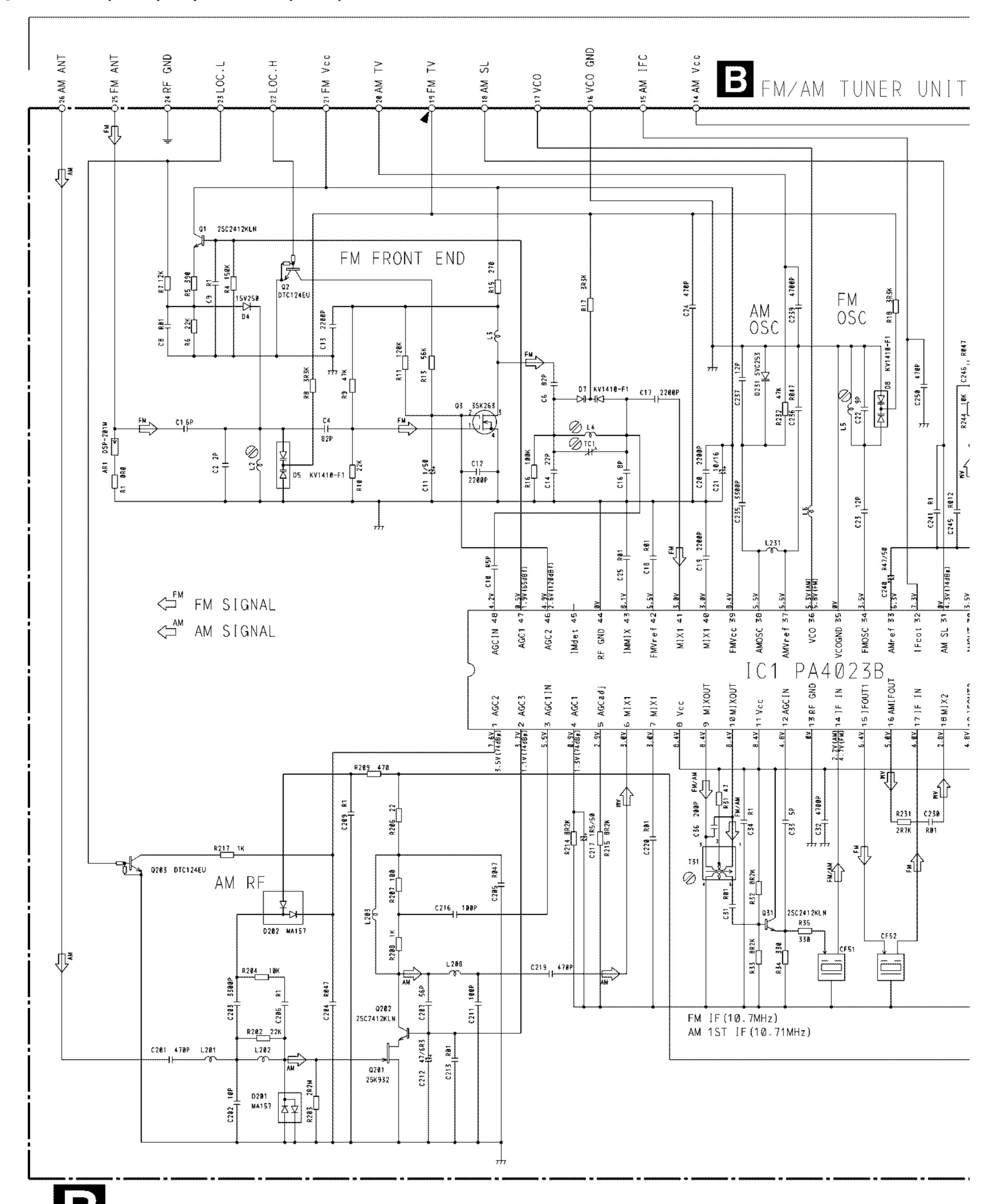






Α

● DEH-345R/X1M/EW, DEH-344R/X1M/EW



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Fig. 12

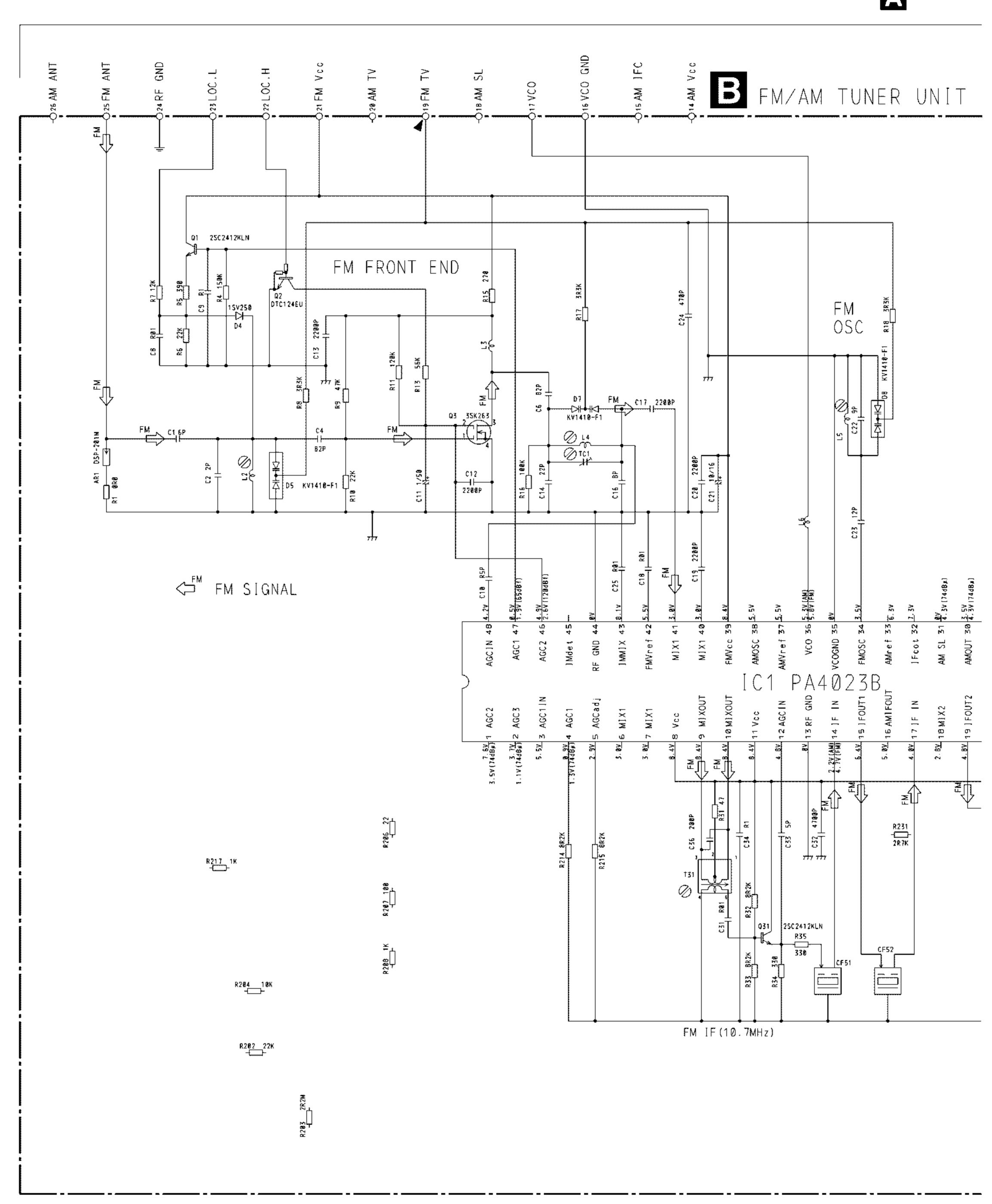
D

В

31

6

● DEH-343R/X1M/GR



32

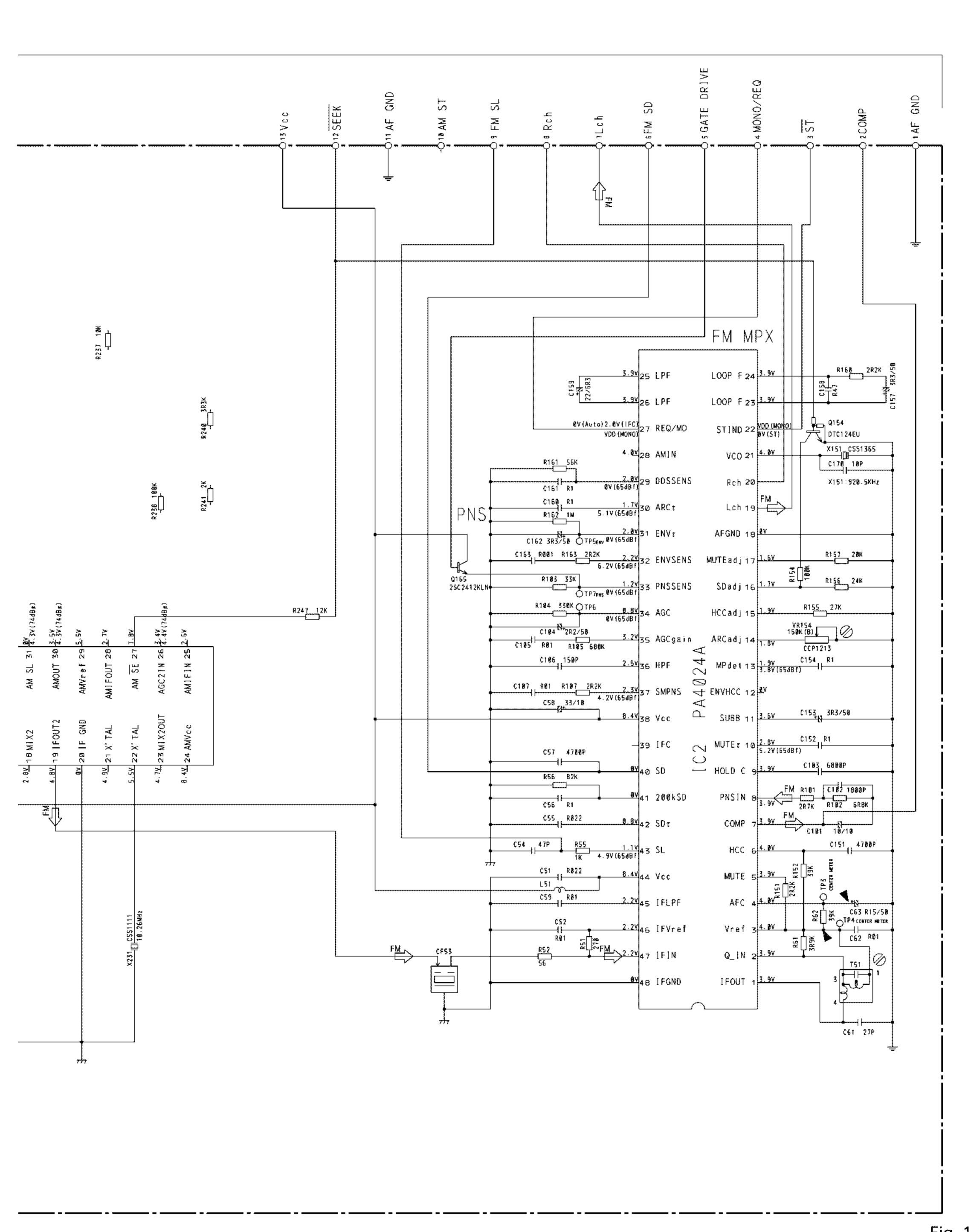
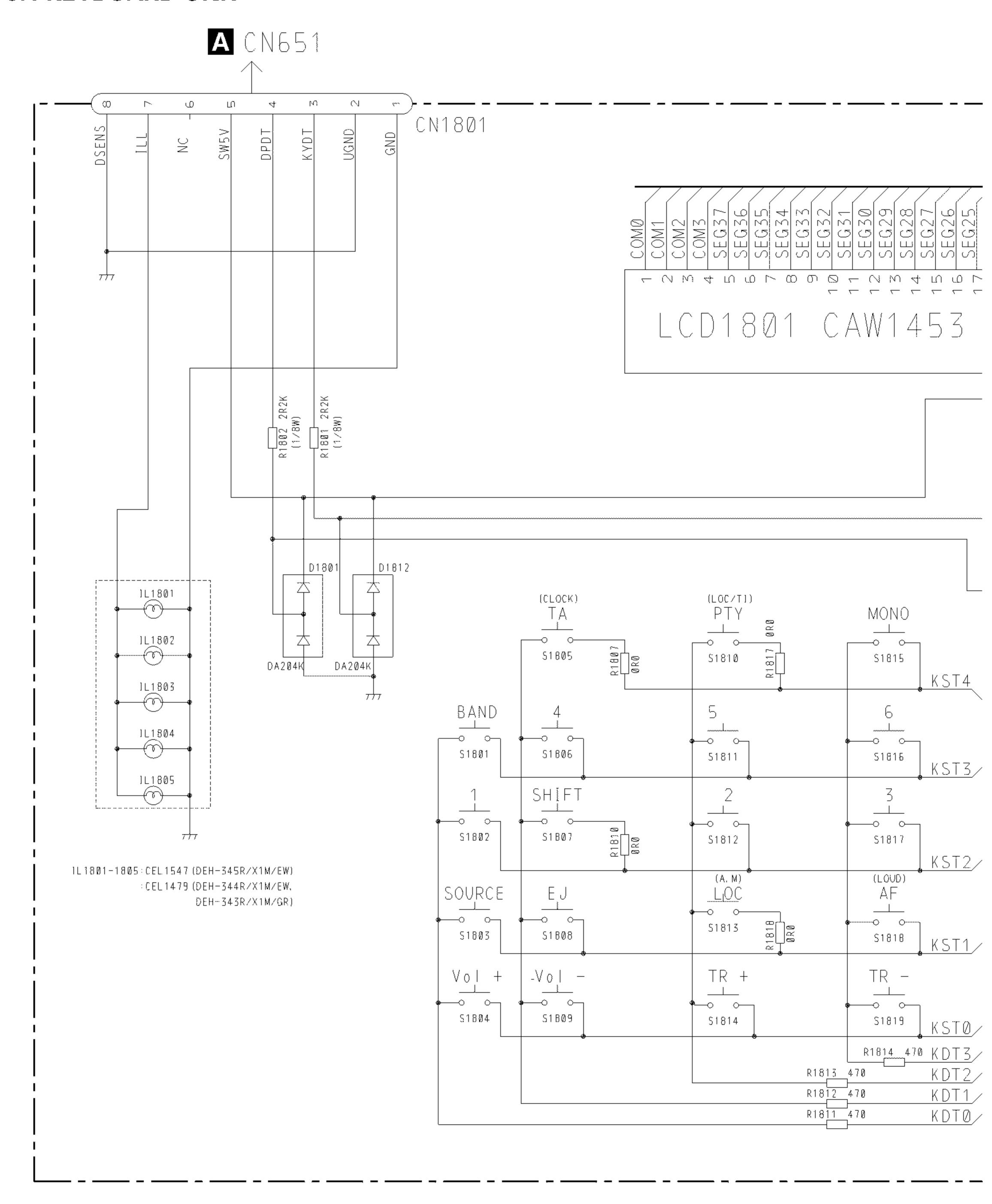


Fig. 13 33 D

В

6

3.4 KEYBOARD UNIT



3

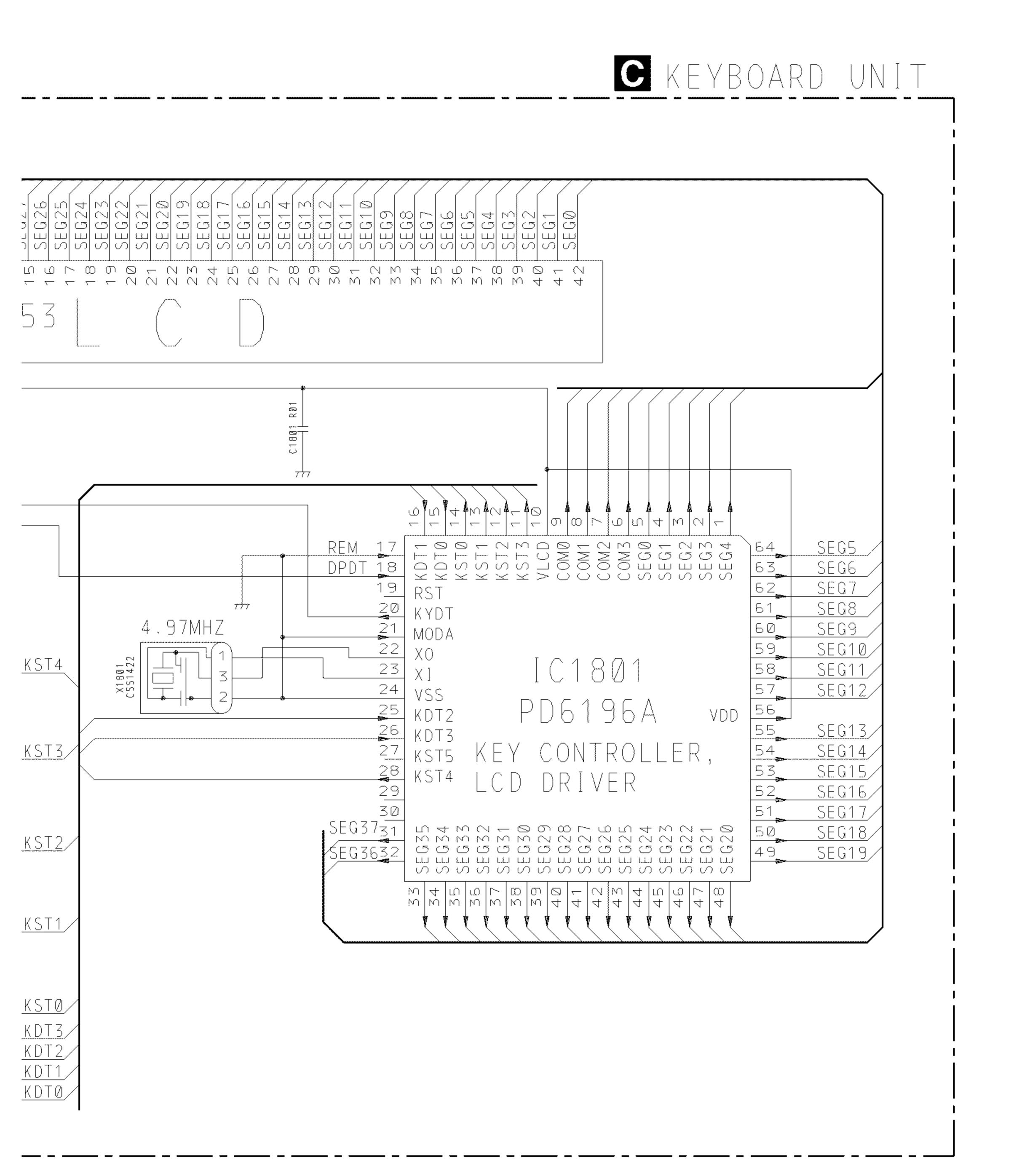


Fig. 14

D

В

35

5

4. PCB CONNECTION DIAGRAM

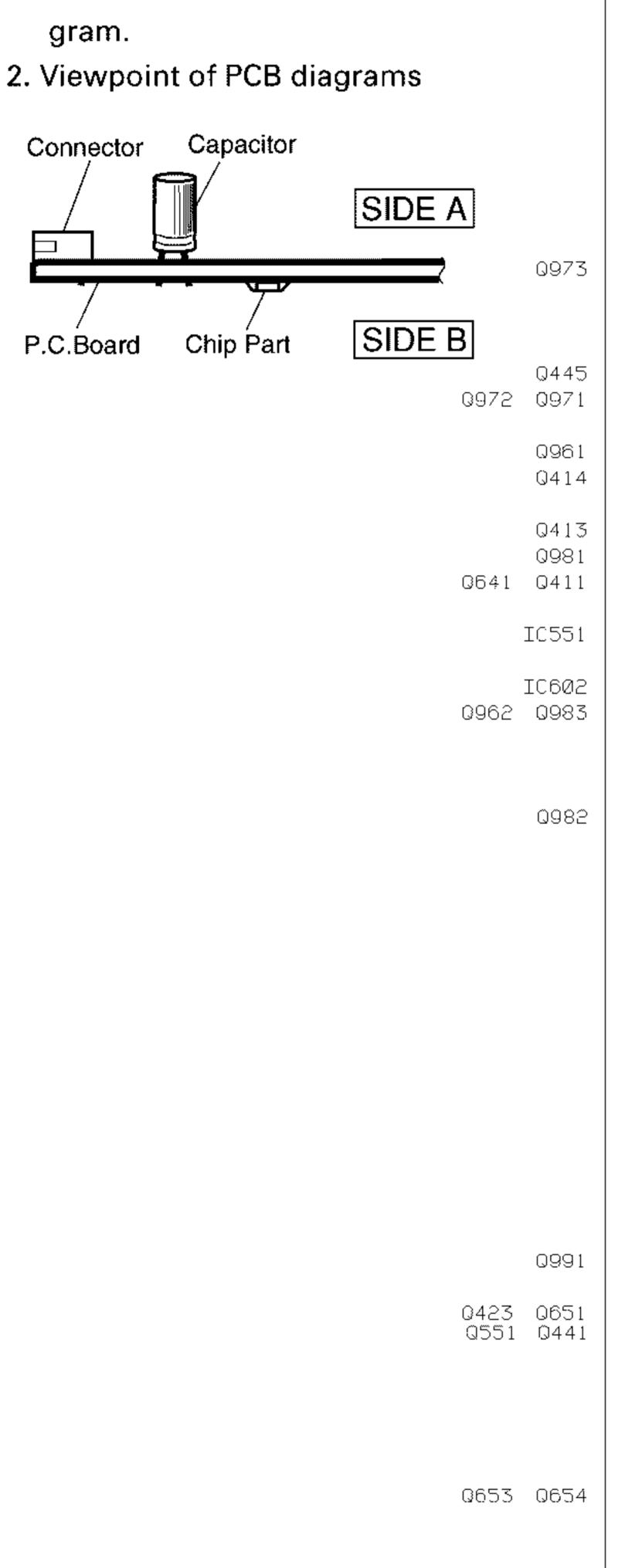
IC, Q

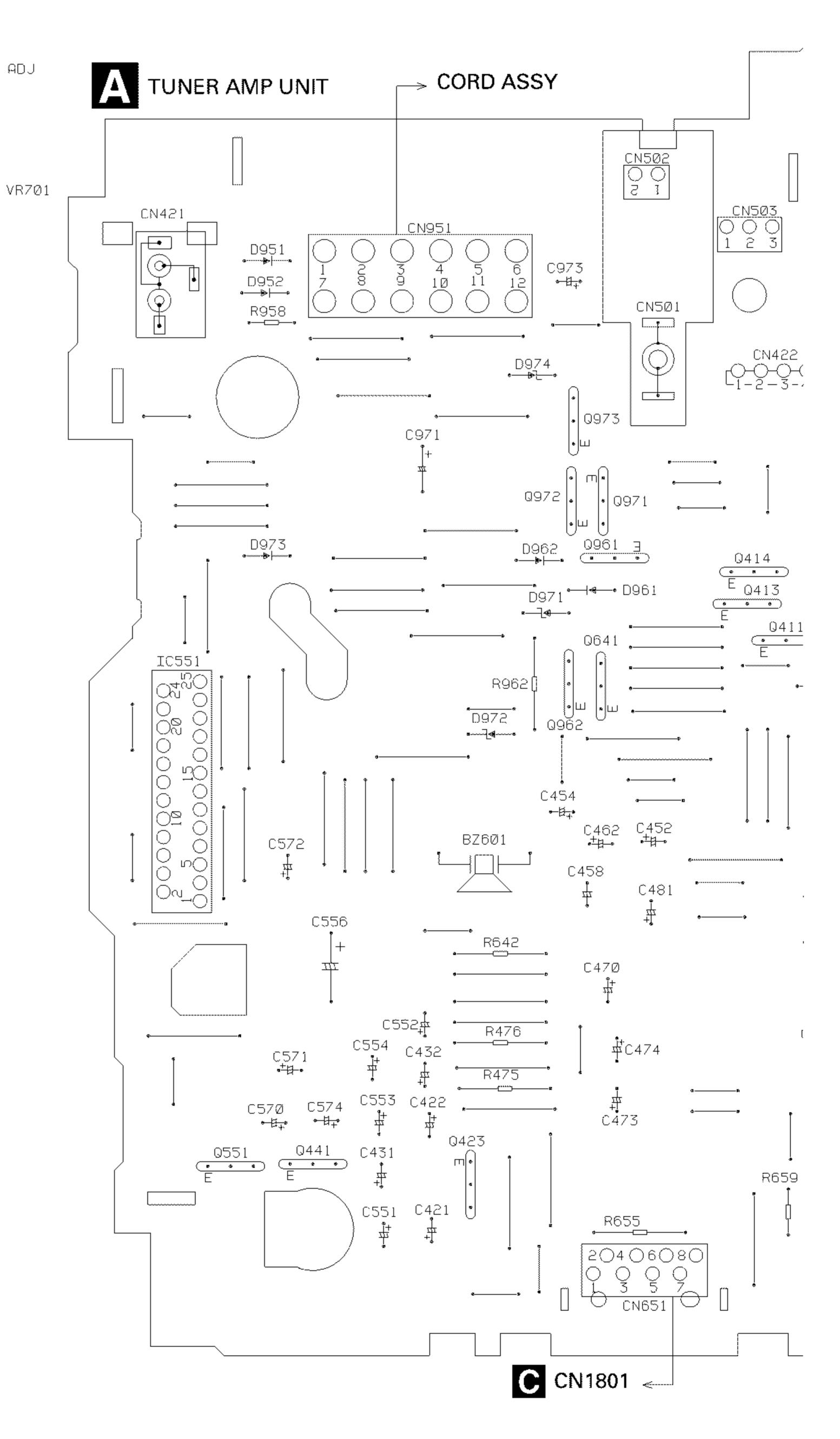
0501

4.1 TUNER AMP UNIT

NOTE FOR PCB DIAGRAMS

1. The parts mounted on this PCB include all necessary parts for several destination. For further information for respective destinations, be sure to check with the schematic dia-

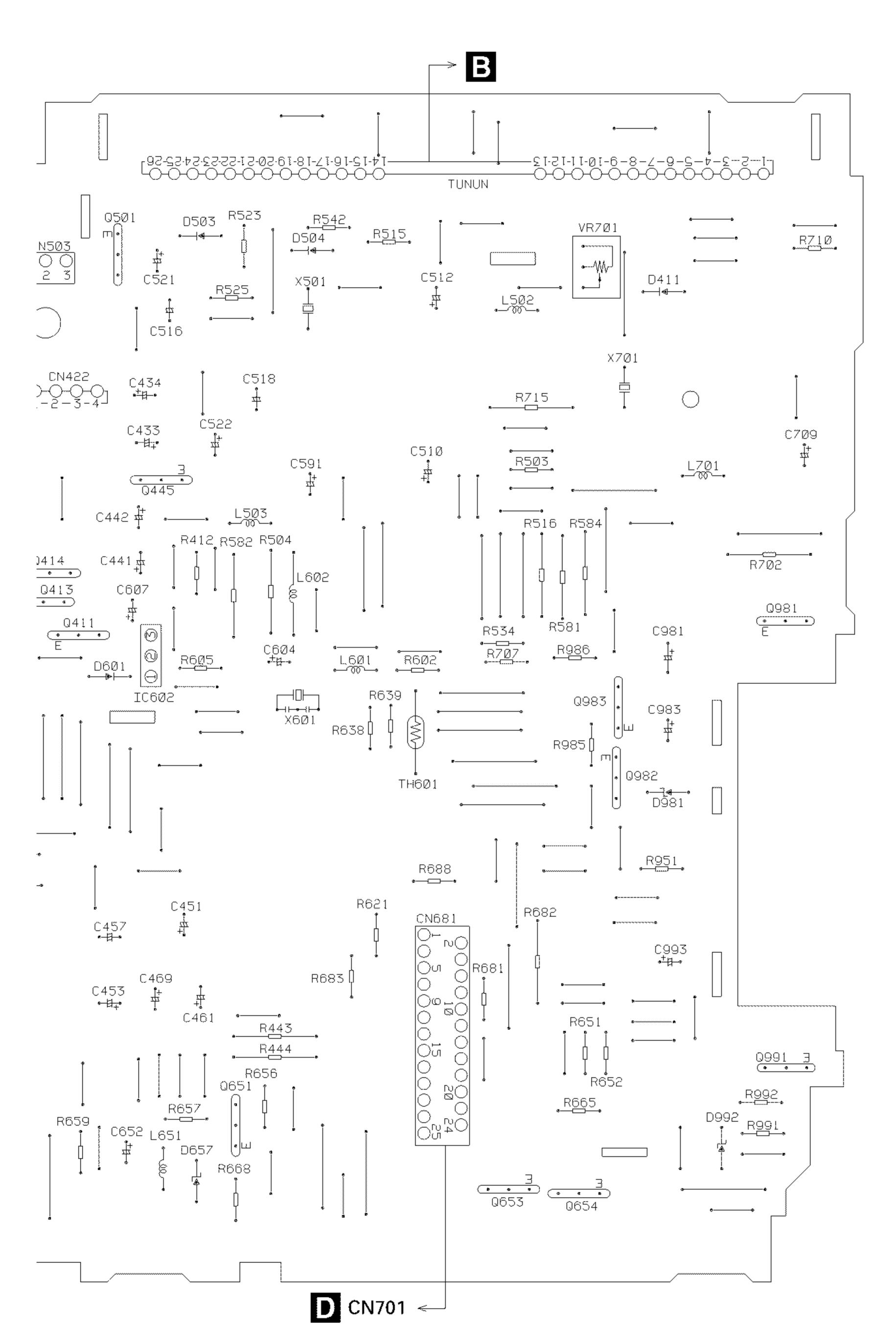




36

SIDE A

В



6

5

Fig. 15

A 37

5

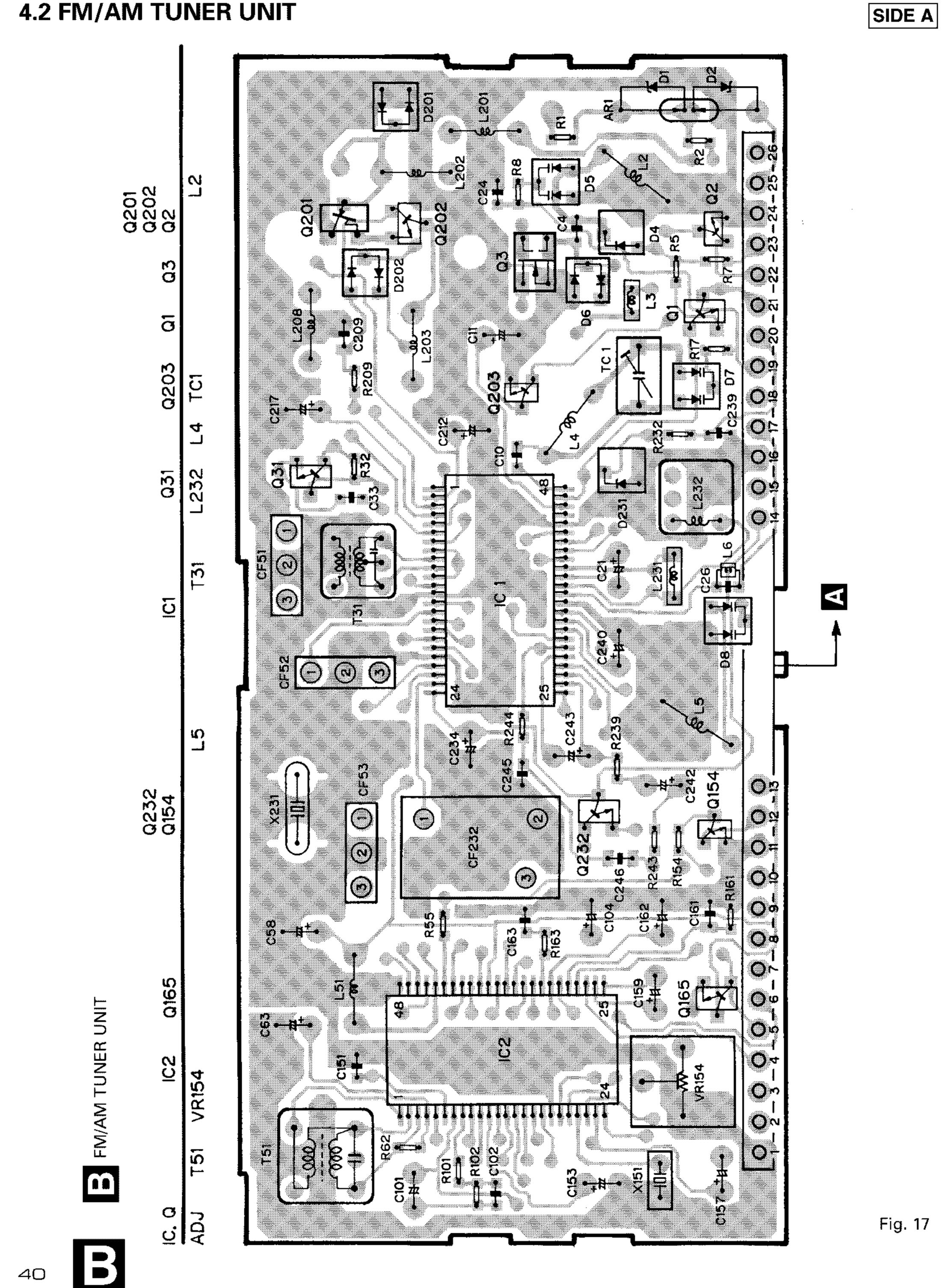
6

TUNER AMP UNIT 10601

SIDE B

IC,Q 07Ø1 Q412 IC7Ø2 IC701 IC5Ø1 0432 Q443 Q984 0951 IC601 0431 IC451 0992 0421 Fig. 16

— 6 **—**



SIDE B

В

_

Fig. 18

B 4

1 = 2 =

FM/AM TUNER UNIT

SIDE A

4.3 CD MECHANISM MODULE

DETECTOR PCB CONTROL UNIT

Fig. 19

2

3

4

SIDE B Q102 IC302 CONTROL UNIT → U M 4 M © K Fig. 20



4.4 KEYBOARD UNIT

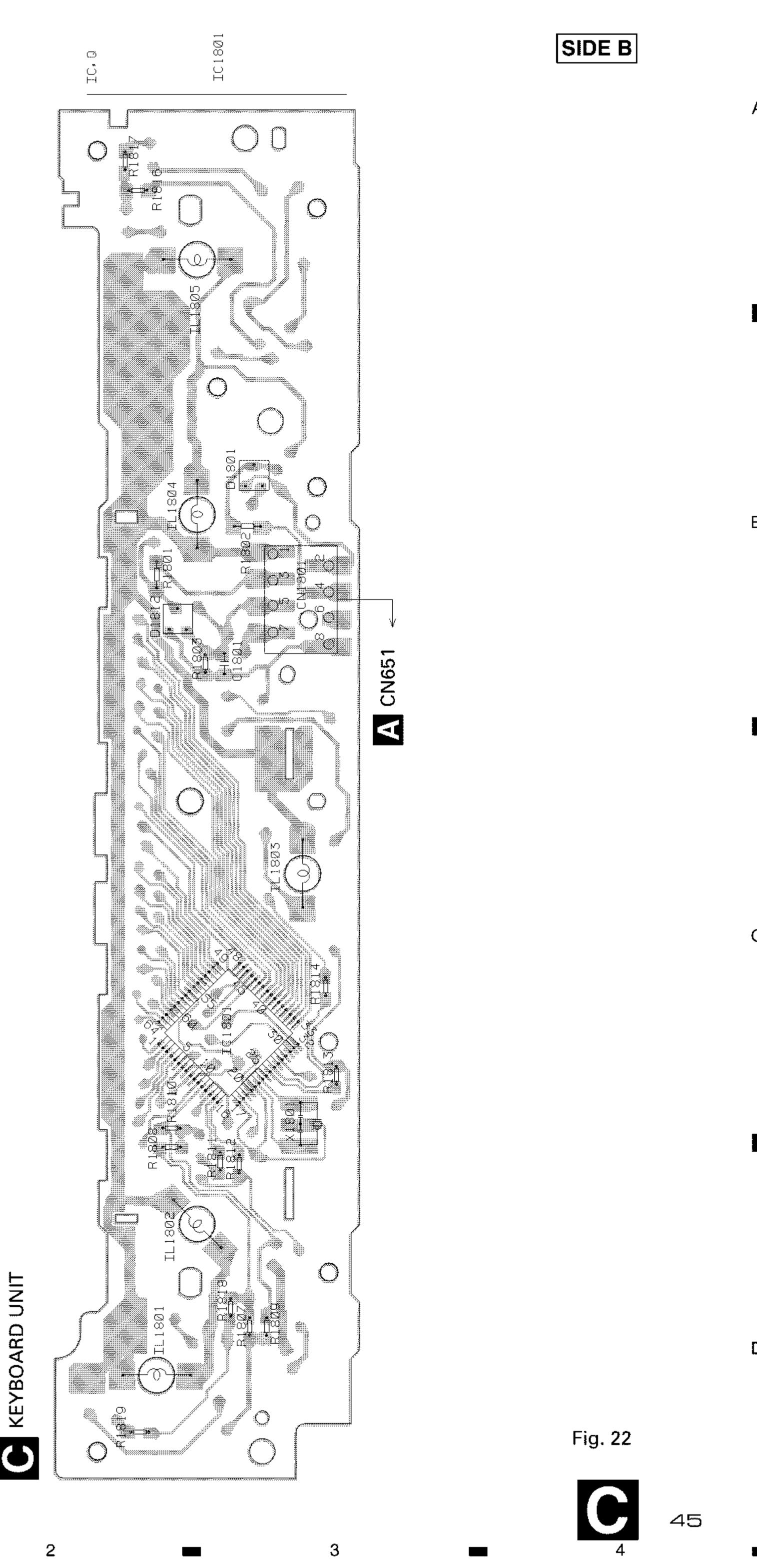
KEYBOARD UNIT

Fig. 21

2

3

BAND



5. ELECTRICAL PARTS LIST

NOTES:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

 $RS1/\bigcirc S\bigcirc\bigcirc\bigcirc J,RS1/\bigcirc\bigcirc S\bigcirc\bigcirc\bigcirc J$

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

===	==Circu	it Symbol and No.===Part Name	Part No.	===	==Circuit Symbol and No.===Part Name	Part No.
	■ Unit I	Number : CWE1466		R	8	RS1/16S332J
15	•	Name : FM/AM Tuner Unit(DEH	_3/5R/X1M/E\//\	Ŕ	9	RS1/16S473J
	• Onit					•
B ALC	· ^ = 1 A N	•	I-344R/X1M/EW)	R	10	RS1/16S223J
IVIIS	CELLA	NEOUS		R	11	RS1/16S124J
IC	1	IC	PA4023B	Ř	13	RS1/16S563J
IC	2	IC	PA4023B	R	15	RS1/16S271J
Q	1	Transistor	2SC2412KLN	R	16	RS1/16S104J
ã	ż	Transistor	DTC124EU	Ŕ	17	RS1/16S332J
ã	3	FET	3SK263	R	18	RS1/16S332J
Q	3	F III I	33N203			•
_	0.4	T	0000440KI NI	R	31	RS1/16S470J
Q	31	Transistor	2SC2412KLN	_		
Q	154	Transistor	DTC124EU	R	32	RS1/16S822J
Q	165	Transistor	2SC2412KLN	R	33	RS1/16S822J
Ω	201	FET	2SK932	R	34	RS1/16S331J
ā	202	Transistor	2SC2412KLN	R	35	RS1/16S331J
4	202	Hallolotoi	2002**12KLI*	R	51	RS1/16S271J
^	202	Tuomaiotos	DTC494EH	n	ان ا	NO 1/ 1002/ 10
Q	203	Transistor	DTC124EU	_		D04/400=004
D	4	Diode	1SV250	R	52	RS1/16S560J
D	5	Diode	KV1410-F1	R	55	RS1/16S102J
D	7	Diode	KV1410-F1	R	56	RS1/16S823J
Đ	8	Diode	KV1410-F1	R	61	RS1/16S392J
_	•			R	62	RS1/16S393J
D	201	Diode	MA157	11	02	1101/1000000
				р	101	DC4/46C0703
D	202	Diode	MA157	R	101	RS1/16S272J
D	231	Diode	SVC253	R	102	RS1/16S682J
L	2	Coil	CTC1133	R	103	RS1/16S333J
L	3	Inductor	LCTB2R2K2125	R	104	RS1/16S334J
				R	105	RS1/16S683J
1	4	Coil	CTC1133			,
Ī	5	Coil	CTC1132	R	107	RS1/16S222J
-	-		LCTBR15K1608			•
L	6	Inductor		R	151	RS1/16S222J
L	51	Ferri-Inductor	LAU150K	R	152	RS1/16S393J
L	201	Ferri-Inductor	LAU4R7K	R	154	RS1/16S104J
				R	155	RS1/16S273J
L	202	Ferri-Inductor	LAU330K			
L	203	Inductor	CTF1287	R	156	RS1/16S243J
ī	208	Inductor	LAU121K	R	157	RS1/16S203J
ī		Inductor	LCTA3R3J3225	R	160	RS1/16S222J
<u>L</u>	231					•
ı	31	Coil	CTE1116	R	161	RS1/16S563J
				R	162	RS1/16S105J
T	51	Coil	CTC1136			
TC	1		CCL1038	R	163	RS1/16S222J
CF	51	Ceramic Filter	CTF1292	R	202	RS1/16S223J
ĊF	52	Ceramic Filter	CTF1292	R	203	RS1/16S225J
ČF	53	Ceramic Filter	CTF1292	Ŕ	204	RS1/16S103J
CF	55	Ceranno Finter	C171232			·
C.F.	000	Camanaia File	CTC4040	R	206	RS1/16S220J
CF	232	Ceramic Filter	CTF1348	_		
X	151	Resonator 920.5kHz	CSS1365	R	207	RS1/16S101J
Х	231	Crystal Resonator 10.26MHz	CSS1111	R	208	RS1/16S102J
VR	154	Semi-fixed 150kΩ(B)	CCP1213	R	209	RS1/16S471J
AR	1		DSP-201M	R	214	RS1/16S822J
,	•		50, 20,111	R	215	RS1/16S822J
DEC	SISTORS	2		11	210	110 1/ 1000223
nuc	no i One	•		D	217	DC1/16C1003
-			ma 44 00 0 m = 1	R	217	RS1/16S102J
R	1		RS1/16S0R0J	Ŗ	231	RS1/16S272J
R	4		RS1/16S154J	R	232	RS1/16S473J
R	5		RS1/16S391J	R	237	RS1/16S103J
R	6		RS1/16S223J	R	238	RS1/16S104J
Ř	7		RS1/16S123J			,
11	,		110 1/100 1200	R	239	RS1/16S104J
						•
				R	240	RS1/16S332J
				R	241	RS1/16S202J
				R	243	R\$1/16\$123J
				R	244	RS1/16S103J

====Circuit Symbol and No.===Part Name	Part No.	=====Circuit Symbol and No.===Part Name	Part No.
R 247 CAPACITORS	RS1/16S123J	C 212 C 213 C 216	CEJA470M6R3 CKSRYB103K25 CCSRCH101J50
		C 217	CEJA1R5M50
C 1 C 2	CCSQCH6R0D50 CCSRCK2R0C50	C 219	CCSRCH471J50
C 4	CCSRCH820J50	C 220	CKSRYB103K25
C 6	CCSRCH820J50	C 230	CKSRYB103K25
C 8	CKSRYB103K25	C 231 C 232	CCSRCH330J50 CCSRCH150J50
C 9	CKSQYB104K16	C 233	CKSQYB104K16
C 10 C 11	CCSRCKR50C50 CEJA1R0M50	C 234	CEJA330M10
Č 12	CKSRYB222K50	C 235	CKSRYB332K50
C 13	CKSRYB222K50	C 236 C 237	CKSQYB473K16 CCSRCH120J50
C 14	CCSRCH220J50	C 237 C 239	CKSRYB472K50
C 16 C 17	CCSRCH8R0D50 CKSRYB222K50	C 240	CEJAR47M50
C 17 C 18	CKSRYB103K25	C 240 C 241	CKSQYB104K16
C 19	CKSRYB222K50	C 242	CEJAR47M50
C 20	CKSRYB222K50	C 243 C 244	CEJAR33M50 CKSQYB473K16
C 21	CEJA100M16	C 045	CKCDVD400K0E
C 22 C 23	CCSRTH9R0D50 CCSRTH120J50	C 245 C 246	CKSRYB123K25 CKSQYB473K16
C 24	CCSRCH471J50	C 250	CCSRCH471J50
C 25	CKSRYB103K25	Unit Number: CWE1470	
C 31	CKSRYB103K25	Unit Name : FM/AM Tuner Unit(DEF	I-343R/X1M/GR)
C 32 C 33	CKSQYB472K50 CCSRCH5R0C50	MISCELLANEOUS	
C 34	CKSQYB104K16		
C 36	CCSRRH201J50	IC 1 IC IC 2 IC	PA4023B PA4024A
C 51	CKSRYB223K25	Q 1 Transistor	2\$C2412KLN
C 52 C 54	CKSRYB103K25 CCSRCH470J50	Q 2 Transistor Q 3 FET	DTC124EU 3SK263
C 55	CKSQYB223K25	Q 3 FEI	33K203
C 56	CKSQYB104K16	Q 31 Transistor Q 154 Transistor	2SC2412KLN DTC124EU
C 50 C 57	CKSRYB472K50	Q 165 Transistor	2SC2412KLN
C 58 C 59	CEJA330M10 CKSRYB103K25	D 4 Diode D 5 Diode	1SV250 KV1410-F1
C 53 C 61	CCSRCH270J50	D 5 Diode	KV 14 10-F 1
C 62	CKSRYB103K25	D 7 Diode D 8 Diode	KV1410-F1 KV1410-F1
C 63	CEJAR15M50	L 2 Coil	CTC1133
C 101	CEJANP100M10	L 3 Inductor	LCTB2R2K2125
C 102 C 103	CKSRYB182K50 CKSRYB682K25	L 4 Coil	CTC1133
C 104	CE LA SESMES	L 5 Coil	CTC1132
C 104 C 105	CEJA2R2M50 CKSRYB103K25	L 6 Inductor L 51 Ferri-Inductor	LCTBR15K1608 LAU150K
C 106	CCSRCH151J50	T 31 Coil	CTE1117
C 107 C 151	CKSRYB103K25 CKSRYB472K50	T 51 Coil	CTC1136
0 450		TC 1	CCL1046
C 152 C 153	CKSQYB104K16 CEJA3R3M50	CF 51 Ceramic Filter CF 52 Ceramic Filter	CTF1292 CTF1292
C 154	CKSQYB104K16	CF 53 Ceramic Filter	CTF1292
C 157 C 158	CEJA3R3M50 CKSYB474K16	X 151 Resonator 920.5kHz	CSS1365
		X 231 Crystal Resonator 10.26MHz	CSS1111
C 159 C 160	CEJA220M6R3 CKSQYB104K16	VR 154 Semi-fixed 150kΩ(B) AR 1	CCP1213 DSP-201M
C 161	CKSQYB104K16		DOI 201111
C 162 C 163	CEJA3R3M50 CKSRYB102K50	RESISTORS	
		R 1	RS1/16S0R0J
C 170 C 201	CCSRCH100D50 CCSRCH471J50	R 4 R 5	RS1/16S154J RS1/16S391J
C 201 C 202	CCSRCH100D50	R 6	RS1/16S223J
C 203	CKSRYB332K50 CKSQYB473K16	R 7	RS1/16S123J
C 204		R 8	RS1/16S332J
C 205	CKSQYB473K16	R 9	RS1/16S473J
C 206 C 207	CKSQYB104K16 CCSRCH560J50	R 10 R 11	RS1/16S223J RS1/16S124J
C 209	CKSQYB104K16	R 13	RS1/16S563J
C 211	CCSRCH101J50		

===	===Circuit Symbol and No.===Part Name	Part No.	====Circuit Symbol and No.===Part Name	Part No.
R R R R	15 16 17 18 31	RS1/16S271J RS1/16S104J RS1/16S332J RS1/16S332J RS1/16S470J	C 62 C 63 C 101 C 102 C 103	CKSRYB103K25 CEJAR15M50 CEJANP100M10 CKSRYB182K50 CKSRYB682K25
R R R R	32 33 34 35 51	RS1/16S822J RS1/16S822J RS1/16S331J RS1/16S331J RS1/16S271J	C 104 C 105 C 106 C 107 C 151	CEJA2R2M50 CKSRYB103K25 CCSRCH151J50 CKSRYB103K25 CKSRYB472K50
R R R R	52 55 56 61 62	RS1/16S560J RS1/16S102J RS1/16S823J RS1/16S392J RS1/16S393J	C 152 C 153 C 154 C 157 C 158	CKSQYB104K16 CEJA3R3M50 CKSQYB104K16 CEJA3R3M50 CKSYB474K16
R R R R	101 102 103 104 105	RS1/16S272J RS1/16S682J RS1/16S333J RS1/16S334J RS1/16S683J	C 159 C 160 C 161 C 162 C 163	CEJA220M6R3 CKSQYB104K16 CKSQYB104K16 CEJA3R3M50 CKSRYB102K50
R R R R	107 151 152 154 155	RS1/16S222J RS1/16S222J RS1/16S393J RS1/16S104J RS1/16S273J	C 170 Unit Number: CWX2210 Unit Name: Control Unit(S7)	CCSRCH100D50
R R R R	156 157 160 161 162	RS1/16S243J RS1/16S203J RS1/16S222J RS1/16S563J RS1/16S105J	MISCELLANEOUS IC 101 IC IC 201 IC IC 301 IC IC 302 IC IC 601 IC	UPC2572GS UPD63702AGF BA6997FM BA6285FP TA2063F
R	163	R\$1/16\$222J	IC 701 IC	PQ05TZ51
CAI C C C C	PACITORS 1 2 4 6 8	CCSQCH6R0D50 CCSRCK2R0C50 CCSRCH820J50 CCSRCH820J50 CKSRYB103K25	Q 101 Transistor Q 102 Transistor D 701 Diode D 702 Diode D 801 D 802	2SD1664 UMD2N 1SR154-400 1SR154-400 CL200IRX CL200IRX
CCCCC	9 10 11 12 13	CKSQYB104K16 CCSRCKR50C50 CEJA1R0M50 CKSRYB222K50 CKSRYB222K50	X 201 Ceramic Resonator 16.93MHz S 801 Switch(Home) S 802 Switch(Clamp) RESISTORS	CSS1363 CSN1028 CSN1028
00000	14 16 17 18 19	CCSRCH220J50 CCSRCH8R0D50 CKSRYB222K50 CKSRYB103K25 CKSRYB222K50	R 102 R 103 R 104	RS1/8S100J RS1/8S120J RS1/16S102J RS1/16S822J RS1/16S682J
00000	20 21 22 23 24	CKSRYB222K50 CEJA100M16 CCSRTH9R0D50 CCSRTH120J50 CCSRCH471J50	R 107 R 108 R 109	RS1/16S183J RS1/16S822J RS1/16S333J RS1/16S683J RS1/16S134J
00000	25 31 32 33 34	CKSRYB103K25 CKSRYB103K25 CKSQYB472K50 CCSRCH5R0C50 CKSQYB104K16	R 112 R 113 R 114	RS1/16S273J RS1/16S222J RS1/16S103J RS1/16S103J RS1/16S102J
00000	36 51 52 54 55	CCSRRH201J50 CKSRYB223K25 CKSRYB103K25 CCSRCH470J50 CKSQYB223K25	R 117 R 201 R 202	RS1/16S163J RS1/16S163J RS1/16S104J RS1/16S473J RS1/16S0R0J
CCCC	56 57 58 59 61	CKSQYB104K16 CKSRYB472K50 CEJA330M10 CKSRYB103K25 CCSRCH270J50	R 505 R 507 R 508	RS1/16S0R0J RS1/16S102J RA4C102J RA4C681J RS1/10S0R0J

=====	Circuit Symbol and No.===Part Name	Part No.		===Circ	uit Symbol and No.===Part Name	Part No.
R 6	501	RS1/16S102J	IC	701	IC	PM4006B
	502	RS1/16S102J	ič	702	ič	TA75S393F
	503	RS1/16S223J	Q	411	Transistor	2SC1740S
R 6	504	RS1/16S223J	Q	412	Transistor	IMD2A
R 8	301	RS1/8S751J	Q	413	Transistor	2SD1468S
R 8	302	RS1/8S751J	Q	414	Transistor	2SD1468S
0.4.0.4			Ö	421	Transistor	IMH3A
CAPA	CITORS		Q	423	Transistor	DTA124ES
C 1	101	CEV101M6R3	Q Q	431 441	Transistor Transistor	IMH3A DTA124ES
_	102	CKSQYB104K16	u	441	Hansistoi	DIAIZALO
	103	CEV470M6R3	Q	443	Transistor	FMG3A
	104	CKSYB334K16	ā	445	Transistor	DTC144ES
C 1	105	CCSRCH330J50	Q	501	Transistor	2SC1740S
		01/0D\/D4601/05	ā	551	Transistor	DTC144ES
	106	CKSRYB103K25	Q	641	Transistor	DTC114ES
	107 108	CEV4R7M35 CKSQYB273K50	Q	651	Transistor	2SA933S
	109	CCSRCH101J50	a	653	Transistor	2SB1236
_	110	CKSQYB104K16	ã	654	Transistor	DTC124ES
			Q	701	Transistor	2SC2412K
	l11	CKSRYB332K50	Q	951	Transistor	IMD3A
	112	CKSQYB473K16	_			
	l 13	CKSRYB103K25	ā	961	Transistor	2SB1243
_	I 1 4 I 1 5	CKSRYB391K50 CCSRCH121J50	Q Q	962 971	Transistor Transistor	DTC114ES 2SC1740S
C	1 10	CCSRCH121000	ã	972	Transistor	2SC1740S 2SC1740S
C 1	116	CKSRYB682K25	ã	973	Transistor	2SD1859
	117	CKSRYB333K16	_			
	I 18	CKSYB334K16	Q	981	Transistor	2SD2396
	l 19	CKSYB334K16	Q	982	Transistor	2SA1674
C 1	120	CKSYB334K16	Q	983	Transistor	2SA1674
C 1	121	CKSYB334K16	Q Q	984 991	Transistor Transistor	IMH1A 2SD2396
_	122	CKSQYB104K16	Q.	331	Hansistoi	2002000
	123	CKSRYB472K50	Q	992	Transistor	IMD2A
	124	CKSQYB104K16	D	411	Diode	1SS133
C 1	125	CCSRCH6R0D50	D	503	Diode	1SS133
	100	01/00\/0450!/05	Ď	601	Diode	1SS133
	126	CKSRYB153K25	D	657	Diode	MTZ5R6J(C)
	127 201	CCSRCH102J25 CKSYB334K16	D	658	Diode	MA153
	202	CKSQYB104K16	Ď	659	Diode	MA153
_	203	CKSQYB104K16	Ď	660	Diode	MA153
·			D	701	Diode	MA3051(M)
	303	CEV470M16	D	951	Diode	1SR139-400
	304	CKSRYB103K25	-	05.0	D: 1	400400 400
	305 206	CKSRYB103K25 CKSRYB103K25	D	952 061	Diode Diode	1SR139-400 1SR139-400
	306 502	CKSRYB471K50	D D	961 962	Diode	1SR139-400
	J02	CRORT D47 1ROO	Ď	971	Diode	HZS6L(C3)
C 6	501	CEV101M6R3	D	972	Diode	HZS7L(C2)
	502	CKSQYB104K16				
	503	CEV4R7M35	D	973	Diode	1SR139-400
	S04	CEV4R7M35	D	974	Diode	HZS6L(B1)
C	305	CKSRYB152K50	D D	981 992	Diode Diode	HZS9L(B3) HZS9L(B1)
Сб	606	CKSRYB152K50	ĺ	502	Ferri-Inductor	LAU2R2K
	507	CEV220M6R3				
C 7	701 22µF/6.3V	CCH1233	L	503	Ferri-Inductor	LAU2R2K
	702	CKSYB334K16	Ļ	601	Ferri-Inductor	LAU2R2K
C 7	703	CEV101M6R3	L	602	Ferri-Inductor	LAU101K
C 0	\A1	CCSRCH471J50	L	651 701	Ferri-Inductor	LAU101K LAU101K
	901 902	CCSRCH471J50 CCSRCH271J50	L	701	Ferri-Inductor	LAUIVIK
	903	CCSRCH471J50	TH	601	Thermistor	CCX1031
	904	CCSRCH101J50	X	501	Crystal Resonator 7.200MHz	CSS1379
			Х	601	Ceramic Resonator 4.194MHz	CSS1047
	Unit Number : CWM5562	ED (54 & B & 75 1 4 4)	X	701	Crystal Resonator 4.332MHz	CSS1056
	Unit Name : Tuner Amp Unit(DEH-34	I5R/X1M/EW) I4R/X1M/EW)	VR	701	Semi-fixed 22kΩ(B)	CCP1321
MISCE	ELLANEOUS	F4N/A IVI/EVV)	BZ	601	Buzzer FM/AM Tuner Unit	CPV1011 CWE1466
	151 IC	SN761027DL	pro	SISTOR		
	501 IC	PM2007A	HES		-	
IC 5	551 IC	TDA7384A	R	411		RS1/10S105J
	501 IC	PD4888A	R	412		RD1/4PU472J
IC 6	502 IC	S-80734AN	R	413 415		RS1/10S224J
			R R	415 416		RS1/10S224J RS1/10S224J
			11	~ IV		

===	===Circuit Symbol and No.===Part Name	Part No.	 =:	===Circuit Symbol and No.===Part Name	Part No.
R R R R	417 418 419 420 421	R\$1/10\$223J R\$1/10\$223J R\$1/10\$222J R\$1/10\$222J R\$1/10\$104J	R R R R	582 583 584 601 602	RD1/4PU102J RS1/10S562J RD1/4PU102J RN1/10SE2202D RD1/4PU912J
R R R R	422 423 431 432 435	RS1/10S104J RS1/8S0R0J RS1/8S471J RS1/8S471J RS1/10S223J	R R R R	603 604 605 606 607	RS1/10S104J RS1/10S393J RD1/4PU102J RS1/10S124J RS1/10S473J
R R R R	436 439 443 444 445	RS1/10S223J RS1/10S472J RD1/4PU222J RD1/4PU222J RS1/10S272J	R R R R	621 625 626 638 639	RD1/4PU473J RS1/10S0R0J RS1/10S0R0J RD1/4PU473J RD1/4PU473J
R R R R	446 447 448 459 460	RS1/10S272J RS1/10S104J RS1/10S104J RS1/10S272J RS1/10S272J	R R R R	641 642 651 652 653	RS1/10S202J RD1/4PU102J RD1/4PU472J RD1/4PU472J RS1/10S222J
R R R R	461 462 475 476 502	RS1/10S151J RS1/10S151J RD1/4PU471J RD1/4PU471J RS1/10S222J	R R R R	654 655 656 657 658	RS1/10S222J RD1/4PU222J RD1/4PU472J RD1/4PU222J RS1/8S222J
R R R R	503 504 506 507 508	RD1/4PU472J RD1/4PU223J RS1/10S0R0J RS1/8S473J RS1/10S102J	R R R R	659 661 664 665 668	RD1/4PU473J RS1/10S1R0J RS1/10S472J RD1/4PU102J RD1/4PU222J
R R R R	509 511 513 514 515	RS1/10S472J RS1/10S222J RS1/10S472J RS1/10S473J RD1/4PU681J	R R R R	681 682 683 688 691	RD1/4PU222J RD1/4PU222J RD1/4PU222J RD1/4PU681J RS1/10S102J
R R R R	516 517 518 519 520	RD1/4PU681J RS1/8S681J RS1/10S681J RS1/10S392J RS1/10S392J	R R R R	692 693 701 702 703	R\$1/8\$102J R\$1/10\$102J R\$1/8\$102J RD1/4PU151J R\$1/10\$103J
R R R R	521 522 523 524 525	RS1/10S152J RS1/10S682J RD1/4PU103J RS1/10S561J RD1/4PU272J	R R R R	707 709 710 711 712	RD1/4PU102J RS1/10S333J RD1/4PU102J RS1/10S102J RS1/10S102J
R R R R	526 527 528 529 530	RS1/10S472J RS1/10S682J RS1/10S222J RS1/10S472J RS1/10S222J	R R R R	713 714 715 716 717	RS1/10S102J RS1/10S102J RD1/4PU562J RS1/10S104J RS1/10S104J
R R R R	531 532 533 534 536	RS1/10S103J RS1/10S224J RS1/8S473J RD1/4PU102J RS1/8S102J	R R R R	718 719 720 721 722	R\$1/10\$102J R\$1/10\$222J R\$1/10\$222J R\$1/10\$684J R\$1/10\$681J
R R R R	542 543 544 545 550	RD1/4PU0R0J RS1/10S0R0J RS1/10S0R0J RS1/8S0R0J RS1/8S0R0J	R R R R	723 951 958 961 962	RS1/10S562J RD1/4PU471J RD1/4PU102J RS1/10S472J RD1/2PM561J
R R R R	570 571 579 580 581	RS1/10S103J RS1/10S103J RS1/10S331J RS1/10S103J RD1/4PU102J	R R R R	971 972 973 974 975	RS1/10S473J RS1/10S103J RS1/10S473J RS1/10S473J RS1/10S103J

====Circuit Symbol and No.===Part Name	Part No.	=====Circuit Symbol and No.===Part Name	Part No.
R 976	RS1/10S473J	C 519	CKSQYB103K50
R 977	RS1/10S101J	C 520	CKLSR473K16
R 978	RS1/10S472J	C 521	CEASR47M50
R 979	RS1/10S472J	C 522	CEJA220M10
R 981	RS1/10S1R0J	C 523	CKSQYB104K50
R 983	RS1/10S472J	C 524	CCSQCH150J50
R 984	RS1/8S472J	C 525	CCSQCH150J50
R 985	RD1/4PU102J	C 527	CKSQYB103K50
R 986	RD1/4PU102J	C 529	CKSQYB103K50
R 987	RS1/10S221J	C 530	CKSQYB103K50
R 991 R 992 R 993 R 994 CAPACITORS	RD1/4PU221J RD1/4PU221J RS1/10S472J RS1/10S222J	C 531 C 535 C 540 C 541 C 543	CCSCH101J50 CKSQYB223K50 CKSQYB152K50 CKSQYB223K50 CKSQYB103K50
CAPACITORS C 411 C 412 C 421 C 422 C 431	CKSQYB471K50	C 544	CKSQYB102K50
	CKSQYB223K50	C 546	CCSQCH101J50
	CEJA3R3M50	C 551	CEJAR22M50
	CEJA3R3M50	C 552	CEJAR22M50
	CEJA100M16	C 553	CEJAR22M50
C 432	CEJA100M16	C 554	CEJAR22M50
C 441	CEJA1R0M50	C 556 3300μF/16V	CCH1150
C 442	CEJA1R0M50	C 570	CEJA100M16
C 443	CKSQYB223K50	C 571	CEJA330M10
C 444	CKSQYB223K50	C 572	CEJA1R0M50
C 445	CKSQYB102K50	C 573	CKSYB104K50
C 446	CKSQYB102K50	C 574	CEJA1R0M50
C 447	CKSQYB102K50	C 591	CEJA220M10
C 451	CEJA2R2M50	C 592	CKSYB102K50
C 452	CEJA2R2M50	C 604	CEJA4R7M35
C 453	CEJA4R7M35	C 606	CKSQYB473K50
C 454	CEJA4R7M35	C 607	CEJA2R2M50
C 455	CKSQYB104K50	C 608	CKSYB102K50
C 456	CKSQYB104K50	C 610	CCSQCH101J50
C 457	CEJANP100M16	C 611	CCSQCH101J50
C 458	CEJANP100M16	C 651	CKSQYB473K50
C 459	CKSQYB822K50	C 652	CEJA4R7M35
C 460	CKSQYB822K50	C 654	CCSQCH101J50
C 461	CEJA1R0M50	C 701	CKSYB105K16
C 462	CEJA1R0M50	C 703	CKSQYB103K50
C 469	CEAL2R2M50	C 704	CKSQYB222K50
C 470	CEJA2R2M50	C 705	CKSQYB104K50
C 471	CKSQYB333K50	C 706	CKSQYB472K50
C 472	CKSQYB333K50	C 707	CKSQYB104K50
C 473	CEJA220M6R3	C 709	CEJA4R7M35
C 474	CEJA2R2M50	C 710	CKSQYB223K50
C 477	CKSQYB104K50	C 711	CCSQCH220J50
C 481	CEJA470M10	C 712	CCSQCH220J50
C 482	CKSQYB104K50	C 713	CKSQYB104K50
C 483	CKSQYB183K50	C 714	CKSQYB104K50
C 484	CKSQYB183K50	C 715	CKSQYB223K50
C 485	CKSQYB102K50	C 716	CKSYB103K50
C 486	CKSQYB102K50	C 717	CKSQYB103K50
C 501	CKSQYB103K50	C 718	CKSQYB102K50
C 504	CKSQYB473K50	C 961	CKSYB473K50
C 506	CKSYB103K50	C 962	CCSQCH101J50
C 507	CKSQYB102K50	C 971 470μF/16V	CCH-114
C 508	CKSQYB103K50	C 972	CKSQYB473K50
C 510	CEJA220M10	C 973	CEJA101M10
C 512	CEJA220M10	C 974	CKSQYB473K50
C 513	CKSQYB473K50	C 981	CEAS331M10
C 515	CKSQYB223K50	C 982	CKSQYB103K50
C 516 4.7μF/16V	CCH1250	C 983	CEJA101M16
C 517	CKSQYB103K50	C 984	CKSYB473K50
C 518 4.7μF/16V	CCH1250	C 991	CKSQYB473K50
		C 992 C 993	CKSQYB102K50 CEAL101M10

MISCELLANEOUS		==Circu	it Symbol and No.===Part Name	Part No.	==:	===Circuit Symbol and No.===Part Name	Part No.
MRSCELLANEOUS	A	Unit Unit	Number : CWM5563 Name : Tuner Amp Unit(DEH-34	3R/X1M/GR)	RES		
C							•
C	MIS	SCELLA	NEOUS				•
C	10	45.1	IC.	SN761027DI			
C							·
C 601 C PDASSBA R 417 RS1/105223 RS1/1052					• •	410	1101,1002240
R					R	417	RS1/10S223J
C 701 C PM400B	IC	602	IC	S-80734AN			•
C	10	701	IC	DMAGOCD			•
Q 411 Transistor 2SC1740S R 432 RS1884711 Q 413 Transistor 2SD1498S R 436 RS1885713 Q 413 Transistor 2BM64 RS1705223 RS1705223 Q 431 Transistor IMH3A R 439 RS1705223 Q 441 Transistor PMG3A R 443 RS1705223 Q 443 Transistor PMG3A R 444 RS1705273 Q 443 Transistor PMG3A R 444 RS1705273 Q 501 Transistor 2SC1740S R 446 RS1705273 Q 501 Transistor DTC144ES R 447 RS1705273 Q 664 Transistor DTC144ES R 449 RS1705273 Q 651 Transistor DTC144ES R 449 RS1705273 Q 654 Transistor DTC							•
Q 412 Transistor IMDZA R 431 RSINSS471J RSINSS471J RSINSS471J RSINSS471 RSINSS471J RSINSS471 RSI	_				• • • • • • • • • • • • • • • • • • • •	420	1101/0001100
1	_				R	431	RS1/8S471J
Q 414 Transistor 25D14685 R 439 RS1/105272J Q 441 Transistor DTA12ES PMC3A R 443 PMC3A72J Q 441 Transistor DTA12ES R 443 RD1/4PU22J Q 445 Transistor DTC14ES R 444 RD1/4PU22J Q 501 Transistor DTC14ES R 446 RS1/105272J Q 551 Transistor DTC14ES R 447 RS1/105272J Q 651 Transistor DTC14ES R 447 RS1/105372J Q 653 Transistor DTC14ES R 448 RS1/105370J Q 653 Transistor DTC14ES R 459 RS1/105370J Q 654 Transistor DTC12ES R 461 RS1/105370J Q 653 Transistor DTC12ES R 461 RS1/105370J Q 654 Transistor DTC12ES R 461 RS1/105370J Q 654 Transistor DTC12ES R 461 RS1/105370J Q 652 Transistor DTC114ES R 461 RS1/105370J Q 653 Transistor DTC14ES R 461 RS1/105370J Q 654 Transistor DTC14ES	Q	413	Transistor	2SD1468S	_		
Q 4.31 Transistor IMH3A R 439 RSI/10S472J Q 4.43 Transistor FMG3A R 443 RN/MPU22J Q 4.45 Transistor PMG3A R 444 RSI/10S72J Q 501 Transistor 25C1740S R 446 RSI/10S72J Q 501 Transistor DTC144ES R 447 RSI/10S72J Q 651 Transistor DTC14ES R 446 RSI/10S72J Q 651 Transistor DTC14ES R 447 RSI/10S12J Q 653 Transistor DTC14ES R 448 RSI/10S12J Q 651 Transistor DTC14ES R 461 RSI/10S12J Q 761 Transistor SC2412K R 462 RSI/10S15LJ Q 761 Transistor ZSC1740S R 450 RSI/10S15LJ Q 771 T	^	41.4	Tuo maioto m	25/24605			•
Q 441 Transistor DTA124ES R 443 RD1/4PU222J Q 445 Transistor DTC144ES R 444 RD1/4PU222J Q 501 Transistor DTC144ES R 446 RS1/105272J Q 651 Transistor DTC144ES R 447 RS1/105104J Q 651 Transistor 25A933S R 448 RS1/105104J Q 651 Transistor 25B1236 R 459 RS1/105272J Q 653 Transistor 25B1236 R 460 RS1/105272J Q 664 Transistor DTC124ES R 460 RS1/105272J Q 941 Transistor IMD3A R 462 RS1/105272J Q 951 Transistor IMD3A R 476 RD1/4PU471J Q 961 Transistor DTC114ES R 476 RD1/4PU471J Q 971	_						
Q 445 Transistor FMG3A R 443 RD1/4PU222J Q 551 Transistor DTC144ES R 445 RS1/105272J Q 551 Transistor DTC14ES R 445 RS1/105272J Q 551 Transistor DTC14ES R 446 RS1/105272J Q 551 Transistor DTC14ES R 447 RS1/105272J Q 651 Transistor DTC14ES R 447 RS1/105104J Q 651 Transistor DTC14ES R 447 RS1/105104J Q 653 Transistor SS1/105104 R 459 RS1/105272J Q 654 Transistor DTC14ES R 459 RS1/105272J Q 655 Transistor DTC14ES R 461 RS1/105272J Q 651 Transistor DTC14ES R 461 RS1/105272J Q 652 Transistor DTC14ES R 461 RS1/105151J Q 771 Transistor SS2/24TX R 462 RS1/105151J Q 81 Transistor DTC14ES R 476 RS1/105151J Q 81 Transistor DTC14ES R 476 RS1/105151J Q 81 Transistor DTC14ES R 502 RS1/105222J Q 972 Transistor SS2/1740S R 502 RS1/105222J Q 973 Transistor SS2/1740S R 504 RD1/4PU272J Q 972 Transistor SS1/1058 R 504 RD1/4PU272J Q 973 Transistor SS1/1058 R 504 RS1/105800J Q 981 Transistor SS1/1058 R 506 RS1/105800J Q 981 Transistor SS1/1058 R 506 RS1/105800J Q 991 Transistor SS1/1058 R 507 RS1/105800J Q 991 Transistor SS1/1058 R 508 RS1/105800J Q 991 Transistor SS1/1058 R 509 RS1/105800J Q 992 Transistor SS1/1058 R 509 RS1/105800J Q 993 Transistor SS1/105800J Q 994 Transistor SS1/105800J Q 995 Transistor SS1/105800J Q 996 R 500	_				• • •	400	1101,1004720
Section	_		Transistor	FMG3A	R	443	RD1/4PU222J
Q 501 Transistor 2SC1740S R 446 RS1705272J Q 561 Transistor DTC144ES R 447 RS1705104J Q 651 Transistor 2SA933S R 448 RS1705272J Q 651 Transistor 2SA933S R 448 RS1705272J Q 651 Transistor DTC124ES R 460 RS1705272J Q 664 Transistor DTC124ES R 461 RS1705151J Q 701 Transistor 2SC2412K R 462 RS17105151J Q 961 Transistor 2SB1243 R 475 RD1/4PU471U Q 961 Transistor 2SB1243 R 475 RD1/4PU471U Q 971 Transistor 2SC1740S R 502 RS17105222J Q 972 Transistor 2SD1859 R 506 RS17105040J Q 981	Q	445	Transistor	DTC144ES			•
Q 651 Transistor Transistor DTC114ES R 447 RS1/10S104J Q 651 Transistor ZSA933S R 448 RS1/10S104J Q 651 Transistor ZSB1226 R 469 RS1/10S222J Q 654 Transistor DTC124ES R 460 RS1/10S222J Q 961 Transistor MDBAA R 462 RS1/10S16J Q 961 Transistor MDBAA R 462 RS1/10S22J Q 961 Transistor DTC114ES R 466 RS1/10S22J Q 962 Transistor DTC114ES R 476 RS1/10S22J Q 971 Transistor 2SC1740S R 503 RD1/4PU47J Q 972 Transistor 2SD1369 R 504 RD1/4PU47ZJ Q 973 Transistor 2SD1369 R 503 RS1/10S22J Q 981 Transistor 2SD1296 R 506 RS1/10S02J Q 982 Transistor 2SD2396 R 507 RS1/10S47J Q 982 Transistor 2SD2396 R 507 RS1/10S47	0	E01	Transistor	25017405			•
Q 641 Transistor Transistor 2SA933S R 448 RS1/10S1041 Q 653 Transistor 2SB1236 R 459 RS1/10S272J C 654 Transistor DTC124ES R 461 RS1/10S151J Q 701 Transistor DTC124ES R 461 RS1/10S151J Q 701 Transistor DTC124ES R 461 RS1/10S151J Q 801 Transistor DTC14ES R 462 RS1/10S151J Q 961 Transistor 2SC1740S R 502 RS1/10S22J Q 971 Transistor 2SC1740S R 503 RD14PU47J Q 972 Transistor 2SC1740S R 504 RD1/4PU47Z Q 971 Transistor 2SD1869 R 504 RD1/4PU47Z Q 981 Transistor 2SD1869 R 506 RS1/10S070D Q 981 Transistor 2SD1868 R 507 RS1/10S070D Q 981 T	_						•
Q 661 Transistor 2SA933S R 448 RSI/1053722 Q 653 Transistor 2SB1236 R 459 RSI/1052723 Q 664 Transistor DTC124ES R 460 RSI/1052723 Q 701 Transistor 2SC2412K R 460 RSI/1053151.1 Q 701 Transistor 2SC2412K R 462 RSI/105151.1 Q 962 Transistor 2SC31740S R 475 RD1/4PU471.1 Q 972 Transistor 2SC1740S R 502 RSI/105222.1 Q 971 Transistor 2SC1740S R 503 RD1/4PU472.1 Q 972 Transistor 2SC1740S R 503 RD1/4PU472.2 Q 971 Transistor 2SC1740S R 503 RD1/4PU472.2 Q 972 Transistor 2SC1740S R 503 RD1/4PU423.1 Q 992 Transistor 2SC1740S R 504 RD1/4PU423.1 Q 992 Transistor 2SC3966 R 506 RS1/10560.0 Q 992 Transistor 2SC3966 R 507 RS186373.1 Q 992 Transistor 2SC396 R 511 RS1705472.1 Q 992 Transistor 2SC396	_				• • •	777	1101/1001040
Q 664 Transistor	_				R	448	RS1/10S104J
Q 654 Transistor DTC124ES R 461 RS1/10S151J Q 701 Transistor 2SC2412K R 462 RS1/10S151J Q 961 Transistor IMD3A RD1/4PU471J Q 962 Transistor DTC114ES R 476 RD1/4PU471J D 971 Transistor 2SC1740S R 502 RS110S222J Q 971 Transistor 2SC1740S R 503 RD1/4PU472J Q 972 Transistor 2SC1740S R 503 RD1/4PU472J Q 973 Transistor 2SD1869 R 507 RS110S270J Q 982 Transistor 2SD2966 R 507 RS110S070J Q 982 Transistor 2SA1674 R 507 RS110S270J Q 982 Transistor 2SD2396 R 507 RS110S270J Q 991 Transistor 2SD2396 R 507 RS110S270J Q 992 Transistor IMM1A R 508 RS110S22J Q 991 Transistor 2SD2396 R 511 RS10S270J Q 992 Transistor IMD2A R 510 RS10S22J D 931 Diode ISS133 R 511 RS10S22J	Q	653	Transistor	2SB1236			_ ·
Q 701 Transistor 28C2412K R 462 RS1/10S151J Q 961 Transistor 1MD3A R 476 RD1/4PU471J Q 961 Transistor 2SB1243 R 476 RD1/4PU471J Q 962 Transistor 2SC1740S R 502 RS1/10S222J Q 972 Transistor 2SC1740S R 503 RD1/4PU472J Q 972 Transistor 2SC1740S R 504 RD1/4PU472J Q 972 Transistor 2SD1296 R 506 RS1/10S070J Q 981 Transistor 2SD1296 R 506 RS1/10S472J Q 984 Transistor MMHA R 508 RS1/10S472J Q 991 Transistor MMD2A R 511 RS1/8S473J Q 992 Transistor MMD2A R 511 RS1/10S472J D 9503	^	GE A	Transistar	DTC104EC			•
Q 961 Transistor IMD3A Q 962 Transistor DTC114ES R 476 RDI/4PU471J Q 962 Transistor DTC114ES R 476 RDI/4PU471J Q 971 Transistor 2SC1740S R 502 RS1/10S22J Q 972 Transistor 2SC1740S R 504 RDI/4PU472J Q 973 Transistor 2SD1859 R 504 RDI/4PU22J Q 981 Transistor 2SD1859 R 506 RS1/10S0R0J Q 982 Transistor 2SD1859 R 506 RS1/10S0R0J Q 982 Transistor 2SD1859 R 508 RS1/10S0R0J Q 982 Transistor 2SD1859 R 508 RS1/10S0R0J Q 991 Transistor 2SD1396 R 508 RS1/10S473J Q 991 Transistor 2SD2396 R 511 RS1/10S473J D 503 Diode 1SS133 R 512 RS1/10S472J<	_						•
Q 961 Transistor 2581243 R 476 RD1/4PU471J Q 962 Transistor 25C1740S R 503 RD1/4PU472J Q 971 Transistor 25C1740S R 503 RD1/4PU472J Q 972 Transistor 25D1859 Transistor R510869 Q 981 Transistor 25D1859 R5107 RS1/8S473J Q 981 Transistor 25D1859 R5107 RS1/8S473J Q 981 Transistor IMH1A R 509 RS1/105472J Q 981 Transistor IMD2A R51105472J R51105472J Q 991 Transistor IMD2A R511 R51/105472J D 411 Diode 15S133 R 514 R51/105472J D 431 Diode 15S133 R 515 R91/1054742J D 651 Diode 15S133 R 515 R9					• • • • • • • • • • • • • • • • • • • •	402	1101/1001510
R 502 R\$1/10\$222J	_				R	475	RD1/4PU471J
Q 971 Transistor 2SC1740S R 503 RD1/4PU272J Q 973 Transistor 2SD1869 Transistor 2SD1869 Q 981 Transistor 2SD1869 Transistor 2SD1869 Q 981 Transistor 2SA1674 R 506 RS1/10S00J Q 984 Transistor IMH1A R 508 RS1/10S472J Q 991 Transistor IMD2A RS1/10S472J D 992 Transistor IMD2A RS1/10S472J D 503 Diode 1SS133 R 513 RS1/10S473J D 601 Diode 1SS133 R 516 RS1/10S472J D 503 Diode MTZ5R6J/C) R 517 RS1/85881J D 650 Diode MA153 R 518 RS1/10S481J D 650 Diode MA153 R 518 RS1/10S881J D 650 Diode MA153 R 518 RS1/10S681J D 701 Diode MA153 R 518 RS1/10S681J D 801 Diode MA153 R 519 RS1/10S682J D 951 Diode MA153 R 519 RS1/10S682J D 952 Diode 1SR139-400	Q	962	Transistor	DTC114ES			•
Q 972 Transistor 2SC1740S R 504 RD1/4PU223J Q 981 Transistor 2SD1896 R 506 RS1/10S0R0J Q 981 Transistor 2SA1674 R 507 RS1/10S102J Q 984 Transistor IMH1A R 509 RS1/10S102J Q 991 Transistor IMD2A BS1/10S472J RS1/10S472J D 991 Transistor IMD2A BS1/10S472J RS1/10S472J D 411 Diode 1SS133 R 513 RS1/10S472J D 601 Diode 1SS133 R 514 RS1/10S473J D 601 Diode 1SS133 R 516 RD1/4PU681J D 607 Diode MT25R6/IC) R 517 RS1/10S681J D 667 Diode MA153 R 518 RS1/10S681J D 669 Diode MA153 <t< td=""><td>0</td><td>071</td><td>Transistar</td><td>20017400</td><td></td><td></td><td>•</td></t<>	0	071	Transistar	20017400			•
Q 973 Transistor 2SD1869 Q 981 Transistor 2SA1674 R 507 RS1/858/73J Q 982 Transistor 2SA1674 R 507 RS1/858/73J Q 984 Transistor 2SD2366 R 5011 RS1/10S472J Q 991 Transistor IMD2A P 11 RS1/10S472J D 911 Diode 1SS133 R 513 RS1/10S472J D 503 Diode 1SS133 R 515 RD1/4PU861J D 661 Diode MTS133 R 516 RD1/4PU861J D 667 Diode MTS133 R 516 RD1/4PU861J D 667 Diode MTS133 R 517 RS1/0S561J D 669 Diode MA163 R 518 RS1/10S681J D 669 Diode MA163 R 518 RS1/10S802J </td <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>•</td>	_						•
Q 981 Transistor 2SA1674 R 507 RS1/10S0R0J Q 984 Transistor IMH1A R 508 RS1/10S102J Q 994 Transistor IMH1A R 509 RS1/10S472J Q 991 Transistor IMD2A Transistor D 411 Diode 1SS133 R 513 RS1/10S472J D 503 Diode 1SS133 R 514 RS1/10S472J D 601 Diode 1SS133 R 514 RS1/10S473J D 601 Diode 1SS133 R 516 RD1/4PU681J D 667 Diode MT25R6/IC) R 517 RS1/10S681J D 667 Diode MA153 R 518 RS1/10S681J D 669 Diode MA153 R 518 RS1/10S681J D 701 Diode MA3051(M) R	_				, ,	004	110 1/41 02200
R 508 RS1/10S102J RS1/10S102J RS1/10S272J RS1/10S273J RS1/	_	981	Transistor		R		RS1/10S0R0J
Q 984 Transistor IMH1A R 509 RS1/10S472J Q 991 Transistor IMD2A R 511 RS1/10S472J D 411 Diode 1SS133 R 513 RS1/10S472J D 503 Diode 1SS133 R 514 RS1/10S472J D 601 Diode 1SS133 R 516 RD1/4PU681J D 657 Diode MTZ5RGJ(C) R 517 RS1/10S481J D 658 Diode MA163 R 518 RS1/10S681J D 659 Diode MA163 R 519 RS1/10S681J D 701 Diode MA3051(M) R 520 RS1/10S682J D 951 Diode MA3051(M) R 524 RS1/10S682J D 951 Diode 1SR139-400 R 524 RS1/10S682J D 961 Diode 1SR139-400 <td>Q</td> <td>982</td> <td>Transistor</td> <td>2SA1674</td> <td></td> <td></td> <td>•</td>	Q	982	Transistor	2SA1674			•
Q 991 Transistor 25D2396 MD23 R 511 RS1/10S22J Q 992 Transistor IMD2A HMD2A R 513 RS1/10S472J D 503 Diode 1SS133 R 514 RS1/10S472J D 601 Diode 1SS133 R 515 RD1/4PU881J D 601 Diode MTZSRS(IC) R 517 RD1/4PU881J D 657 Diode MAT53 R 518 RD1/4PU881J D 658 Diode MA153 R 519 RS1/10S681J D 660 Diode MA153 R 519 RS1/10S681J D 660 Diode MA3051(M) R 520 RS1/10S682J D 951 Diode 1SR139-400 R 524 RS1/10S682J D 961 Diode 1SR139-400 R 526 RS1/10S472J D 971 Diode HZS6L(C3) R 528 RS1/10S472J D 972 Diode HZS9L(E8) R	0	004	Transistar	IN ALS 1 A			· -
Q 992 Transistor IMD2A D 411 Diode 1SS133 R 514 RS1/10S472J D 503 Diode 1SS133 R 514 RS1/10S473J RS1/10S481J D 657 Diode MTZ5R6J(C) R 517 RS1/10S681J D 658 Diode MA153 R 518 RS1/10S681J D 659 Diode MA153 R 519 RS1/10S681J R 520 RS1/10S0R0J R 520 RS1/10S0R0J R 520 RS1/10S0R0J R 520 RS1/10S0R0J D 951 Diode 1SR139-400 R 524 RS1/10S681J D 952 Diode 1SR139-400 R 524 RS1/10S681J D 961 Diode 1SR139-400 R 526 RS1/10S472J D 962 Diode 1SR139-400 R 526 RS1/10S472J D 972 Diode 1SR139-400 R 527 RS1/10S682J D 972 Diode HZ56L(C3) R 529 RS1/10S472J D 973 Diode HZ56L(C3) R 529 RS1/10S472J D 974 Diode HZ56L(B1) R 530 RS1/10S472J D 974 Diode HZ56L(B1) R 530 RS1/10S472J D 974 Diode HZ59L(B1) R 533 RS1/10S103J RS1/10S1	_						•
D 503 Diode ISS133 R 514 RS1/10S473J D 601 Diode ISS133 R 515 RD1/4PU681J D 667 Diode MTZSR6J(C) R 517 RS1/8S861J RS1/10S861J RS1/10S472J RS1/10S862J RS1/10S472J RS1/10S862J RS1/10S472J RS1/10S862J RS1/10S472J RS1/10S862J RS1/10S472J RS1/10S473J RS1/10S473J RS1/10S473J RS1/10S473J RS1/10S600J RS1/10S600J RS1/10S600J RS1/10S600J RS1/10S600J RS1/10S600J RS1/10S600J RS1/10S600J RS1/10S000J RS1/10S103J	_						,
R 515 RD1/4PU681J							•
D 601 Diode 1SS133 R 516 RD1/4PU681J D 657 Diode M7Z5R6J(C) R 517 RS1/8S681J D 658 Diode MA153 R 518 RS1/10S681J D 650 Diode MA153 R 519 RS1/10S6R0J R 520 RS1/10S0R0J R 520 RS1/10S0R0J RS1/10S0R0J RS1/10S0R0J D 701 Diode MA3051(M) R 522 RS1/10S0R0J D 951 Diode 1SR139-400 R 522 RS1/10S0R0J D 952 Diode 1SR139-400 R 526 RS1/10S681J D 961 Diode 1SR139-400 R 526 RS1/10S681J D 962 Diode 1SR139-400 R 526 RS1/10S681J D 971 Diode HZS6L(C3) R 527 RS1/10S682J D 972 Diode HZS6L(C3) R 527 RS1/10S682J D 973 Diode HZS6L(C3) R 529 RS1/10S682J D 974 Diode HZS6L(C3) R 529 RS1/10S472J D 973 Diode HZS6L(C3) R 529 RS1/10S472J D 974 Diode HZS6L(C3) R 529 RS1/10S222J D 975 Diode HZS6L(C3) R 529 RS1/10S222J D 974 Diode HZS6L(C3) R 529 RS1/10S222J D 975 Diode HZS6L(C3) R 529 RS1/10S222J D 976 Diode HZS6L(C3) R 530 RS1/10S222J D 977 Diode HZS6L(C3) R 530 RS1/10S222J D 978 Diode HZS6L(B1) R 530 RS1/10S222J D 979 Diode HZS6L(B1) R 530 RS1/10S222J D 970 Diode HZS6L(B1) R 533 RS1/10S222J D 971 Diode HZS6L(B1) R 533 RS1/10S222J D 972 Diode HZS6L(B1) R 533 RS1/10S222J D 973 Diode HZS6L(B1) R 533 RS1/10S222J D 974 Diode HZS6L(B1) R 533 RS1/10S222J D 975 Diode HZS6L(B1) R 530 RS1/10S222J D 976 Diode HZS6L(B1) R 530 RS1/10S222J D 977 Diode HZS6L(B1) R 530 RS1/10S222J D 978 Diode HZS6L(B1) R 530 RS1/10S222J D 979 Diode HZS6L(B1) R 530 RS1/10S222J D 970 Diode HZS6L(B1) R 530 RS1/10S222J D 971 Diode HZS6L(B1) R 530 RS1/10S222J D 972 Diode HZS6L(B1) R 530 RS1/10S232J D 973 Diode HZS6L(B1) R 530 RS1/10S331J D 070 Commontal R 540	D	503	Diode	1SS133			•
D 657 Diode MTZSR6J(C) R 517 RS1/8S681J D 658 Diode MA153 R 518 RS1/10S681J D 669 Diode MA153 R 519 RS1/10S681J D 660 Diode MA3051(M) R 520 RS1/10S682J D 701 Diode MA3051(M) R 522 RS1/10S682J D 951 Diode 1SR139-400 R 524 RS1/10S681J D 952 Diode 1SR139-400 R 526 RS1/10S472J D 961 Diode 1SR139-400 R 526 RS1/10S472J D 971 Diode HZS6L(C3) R 528 RS1/10S422J D 972 Diode HZS6L(C3) R 529 RS1/10S472J D 974 Diode HZS6L(B1) R 530 RS1/10S472J D 974 Diode HZS6L	ח	601	Diode	155133			-
D 658 Diode MA153 R 518 RS1/10S681J							•
D 660 Diode MA153 R 519 RS1/10S0R0J							,
R 520 RS1/10S0R0J							•
D 701 Diode MA3051(M) R 522 RS1/10S882J D 951 Diode 1SR139-400 R 524 RS1/10S561J D 952 Diode 1SR139-400 R 525 RD1/4PU272J D 961 Diode 1SR139-400 R 525 RD1/4PU272J D 962 Diode 1SR139-400 R 526 RS1/10S472J RS1/10S682J D 972 Diode HZS6L(C3) R 528 RS1/10S62J D 973 Diode HZS7L(C2) R 529 RS1/10S472J D 973 Diode HZS7L(C2) R 529 RS1/10S472J D 974 Diode HZS7L(C3) R 529 RS1/10S222J D 974 Diode HZS6L(B1) R 530 RS1/2S22J D 975 Diode HZS6L(B1) R 530 RS1/2S22J D 976 Diode HZS9L(B1) R 531 RS1/10S103J R 531 RS1/10S103J R 532 RS1/10S224J D 981 Diode HZS9L(B1) R 532 RS1/10S224J D 992 Diode HZS9L(B1) R 533 RS1/8S473J R 51/2S22J D 974 Diode HZS9L(B1) R 533 RS1/8S473J L 502 Ferri-Inductor LAU2R2K R 534 RD1/4PU102J L 503 Ferri-Inductor LAU2R2K R 534 RD1/4PU102J L 601 Ferri-Inductor LAU2R2K R 543 RS1/8S102J RS1/10S0R0J L 601 Ferri-Inductor LAU2R2K R 543 RS1/8S102J RS1/10S0R0J L 601 Ferri-Inductor LAU101K R 542 RD1/4PU0R0J R 51/2 RS1/10S0R0J R 51/2 RS1/10S0R0J R 51/2 RS1/10S0R0J RS1/10S0R0J R 51/2 RS1/10S0R0J RS1/10S0R0J R 51/2 RS1/10S0R0J RS1/1	D	660	Diode	MA153			•
D 951 Diode 15R139-400 R 524 R51/105561J	ח	701	Diode	MA3051(M)			•
D 952 Diode 1SR139-400 R 525 RD1/4PU272J							•
D 962 Diode 1SR139-400 R 526 RS1/10S472J D 971 Diode HZS6L(C3) R 528 RS1/10S222J D 972 Diode HZS7L(C2) R 529 RS1/10S222J D 973 Diode HZS9L(B1) R 530 RS1/10S222J D 981 Diode HZS9L(B1) R 531 RS1/10S224J D 992 Diode HZS9L(B1) R 532 RS1/10S224J L 502 Ferri-Inductor LAU2R2K R 534 RD1/4PU102J L 503 Ferri-Inductor LAU2R2K R 536 RS1/8S102J L 601 Ferri-Inductor LAU101K R 542 RD1/4PU0R0J L 602 Ferri-Inductor LAU101K R 542 RD1/4PU0R0J L 701 Ferri-Inductor LAU101K R 544 RS1/8S0R0J TH 601	D			1SR139-400			,
D 971 Diode HZS6L(C3) R 527 RS1/10S682J							•
D 971 Diode HZS6L(C3) R 528 RS1/10S222J D 972 Diode HZS7L(C2) R 529 RS1/10S472J D 973 Diode 15R139-400 T	Ð	962	Diode	1SR139-400			•
D 972 Diode HZS7L(C2) R 529 RS1/10S472J D 973 Diode 1SR139-4000 D 974 Diode HZS6L(B1) R 530 RS1/10S222J D 981 Diode HZS9L(B3) R 531 RS1/10S103J D 992 Diode HZS9L(B1) R 532 RS1/10S224J D 992 Diode HZS9L(B1) R 533 RS1/10S224J L 502 Ferri-Inductor LAU2R2K R 534 RD1/4PU102J L 503 Ferri-Inductor LAU2R2K R 534 RD1/4PU102J L 601 Ferri-Inductor LAU2R2K R 542 RD1/4PU0R0J L 602 Ferri-Inductor LAU101K R 542 RD1/4PU0R0J L 651 Ferri-Inductor LAU101K R 543 RS1/10S0R0J L 701 Ferri-Inductor LAU101K R 544 RS1/10S0R0J L 701 Ferri-Inductor CCX1031 X 501 Crystal Resonator 7.200MHz CSS1379 R 550 RS1/8S0R0J X 601 Ceramic Resonator 4.194MHz CSS1047 R 570 RS1/10S103J X 701 Crystal Resonator 4.332MHz CSS1056 R 579 RS1/10S331J X 701 Crystal Resonator 4.332MHz CSS1056 R 579 RS1/10S103J BZ 601 Buzzer CPV1011	D	971	Diode	HZS6L(C3)			
D 973 Diode 1SR139-400 D 974 Diode HZS6L(B1) R 530 RS1/10S222J D 981 Diode HZS9L(B3) R 531 RS1/10S103J R 532 RS1/10S224J D 992 Diode HZS9L(B1) R 533 RS1/8S473J L 502 Ferri-Inductor LAU2R2K R 534 RD1/4PU102J L 503 Ferri-Inductor LAU2R2K L 601 Ferri-Inductor LAU2R2K R 536 RS1/8S102J L 602 Ferri-Inductor LAU101K R 542 RD1/4PU0R0J R 543 RS1/10S0R0J L 651 Ferri-Inductor LAU101K R 544 RS1/10S0R0J L 701 Ferri-Inductor LAU101K R 545 RS1/8S0R0J TH 601 Thermistor CCX1031 X 501 Crystal Resonator 7.200MHz CSS1379 R 550 RS1/8S0R0J X 601 Ceramic Resonator 4.194MHz CSS1047 R 570 RS1/10S103J X 701 Crystal Resonator 4.332MHz CSS1056 R 579 RS1/10S103J VR 701 Semi-fixed 22kΩ(B) CCP1321 R 580 RS1/10S103J BZ 601 Buzzer CPV1011				• •			·
D 981 Diode HZS9L(B3) R 531 RS1/10S103J D 992 Diode HZS9L(B1) R 532 RS1/10S224J D 992 Diode HZS9L(B1) R 533 RS1/8S473J L 502 Ferri-Inductor LAU2R2K R 534 RD1/4PU102J L 601 Ferri-Inductor LAU2R2K R 536 RS1/8S102J L 602 Ferri-Inductor LAU101K R 542 RD1/4PU0R0J R 543 RS1/10S0R0J RS1/10S0R0J RS1/10S0R0J RS1/10S0R0J L 651 Ferri-Inductor LAU101K R 544 RS1/10S0R0J L 701 Ferri-Inductor LAU101K R 545 RS1/8S0R0J TH 601 Thermistor CCX1031 R 545 RS1/8S0R0J X 501 Crystal Resonator 7.200MHz CSS1047 R 570 RS1/8S0R0J X	D		Diode				,
D 992 Diode HZS9L(B1) R 532 RS1/10S224J L 502 Ferri-Inductor LAU2R2K R 534 RD1/4PU102J L 503 Ferri-Inductor LAU2R2K L 601 Ferri-Inductor LAU2R2K R 536 RS1/8S102J L 602 Ferri-Inductor LAU101K R 542 RD1/4PU0R0J R 543 RS1/10S0R0J L 651 Ferri-Inductor LAU101K R 544 RS1/10S0R0J L 701 Ferri-Inductor LAU101K R 545 RS1/8S0R0J TH 601 Thermistor CCX1031 X 501 Crystal Resonator 7.200MHz CSS1379 R 550 RS1/8S0R0J X 601 Ceramic Resonator 4.194MHz CSS1047 R 570 RS1/10S103J X 701 Crystal Resonator 4.332MHz CSS1056 R 579 RS1/10S31J VR 701 Semi-fixed 22kΩ(B) CCP1321 R 580 BZ 601 Buzzer CPV1011				•			•
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	D	981	Diode	HZS9L(B3)			•
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	D	992	Diode	HZS9L(B1)			•
L 503 Ferri-Inductor LAU2R2K R 536 RS1/8S102J L 601 Ferri-Inductor LAU101K R 542 RD1/4PU0R0J L 602 Ferri-Inductor LAU101K R 543 RS1/10S0R0J L 651 Ferri-Inductor LAU101K R 544 RS1/10S0R0J L 701 Ferri-Inductor LAU101K R 545 RS1/8S0R0J TH 601 Thermistor CCX1031 CX RS1/8S0R0J X 501 Crystal Resonator 7.200MHz CSS1379 R 550 RS1/8S0R0J X 601 Ceramic Resonator 4.194MHz CSS1047 R 570 RS1/10S103J X 701 Crystal Resonator 4.332MHz CSS1056 R 579 RS1/10S331J VR 701 Semi-fixed 22kΩ(B) CCP1321 R 580 RS1/10S103J BZ 601 Buzzer CPV1011 R 580 RS1/10S103J	Ĺ						•
L 602 Ferri-Inductor LAU101K R 542 RD1/4PU0R0J L 651 Ferri-Inductor LAU101K R 544 RS1/10S0R0J L 701 Ferri-Inductor LAU101K R 545 RS1/8S0R0J TH 601 Thermistor CCX1031 CCX1031 TOX TOX RS1/8S0R0J X 501 Crystal Resonator 7.200MHz CSS1379 R 550 RS1/8S0R0J X 601 Ceramic Resonator 4.194MHz CSS1047 R 570 RS1/10S103J X 701 Crystal Resonator 4.332MHz CSS1056 R 579 RS1/10S331J VR 701 Semi-fixed 22kΩ(B) CCP1321 R 580 RS1/10S103J BZ 601 Buzzer CPV1011 R 580 RS1/10S103J	L	503	Ferri-Inductor	LAU2R2K			•
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Ļ						•
L 651 Ferri-Inductor LAU101K R 544 RS1/10S0R0J L 701 Ferri-Inductor LAU101K R 545 RS1/8S0R0J TH 601 Thermistor CCX1031 CCX1031 R 550 RS1/8S0R0J X 501 Ceramic Resonator 4.194MHz CSS1047 R 570 RS1/10S103J X 701 Crystal Resonator 4.332MHz CSS1056 R 579 RS1/10S331J VR 701 Semi-fixed 22kΩ(B) CCP1321 R 580 RS1/10S103J BZ 601 Buzzer CPV1011 R 580 RS1/10S103J	L	602	Ferri-Inductor	LAU101K			•
L 701 Ferri-Inductor LAU101K R 545 RS1/8S0R0J TH 601 Thermistor CCX1031 R 550 RS1/8S0R0J X 501 Ceramic Resonator 4.194MHz CSS1047 R 570 RS1/10S103J X 701 Crystal Resonator 4.332MHz CSS1056 R 579 RS1/10S331J VR 701 Semi-fixed 22kΩ(B) CCP1321 R 580 RS1/10S103J BZ 601 Buzzer CPV1011 R 580 RS1/10S103J	1	651	Ferri-Inductor	LAU101K			•
TH 601 Thermistor CCX1031 X 501 Crystal Resonator 7.200MHz CSS1379 R 550 RS1/8S0R0J X 601 Ceramic Resonator 4.194MHz CSS1047 R 570 RS1/10S103J R 571 RS1/10S103J X 701 Crystal Resonator 4.332MHz CSS1056 R 579 VR 701 Semi-fixed 22kΩ(B) CCP1321 R 580 RS1/10S103J BZ 601 Buzzer CPV1011	Ĺ						
X 601 Ceramic Resonator 4.194MHz CSS1047 R 570 RS1/10S103J R 571 RS1/10S103J RS1/10S103J R 571 RS1/10S103J RS1/10S331J RS1/10S331J RS1/10S331J RS1/10S103J RS1/10S10J		601	Thermistor	CCX1031			•
R 571 RS1/10S103J X 701 Crystal Resonator 4.332MHz CSS1056 R 579 RS1/10S331J VR 701 Semi-fixed 22kΩ(B) CCP1321 R 580 RS1/10S103J BZ 601 Buzzer CPV1011			•		_		•
X 701 Crystal Resonator 4.332MHz CSS1056 R 579 RS1/10S331J VR 701 Semi-fixed 22kΩ(B) CCP1321 R 580 RS1/10S103J BZ 601 Buzzer CPV1011	Х	601	Ceramic Resonator 4.194MHz	C551047			-
VR 701 Semi-fixed 22kΩ(B) CCP1321 R 580 RS1/10S103J BZ 601 Buzzer CPV1011	Х	701	Crystal Resonator 4.332MHz	CSS1056			•
BZ 601 Buzzer CPV1011							•
FM/AM Tuner Unit CWE1470	ΒZ	601	— ·				
			FIVI/AIVI Tuner Unit	CVVE1470			

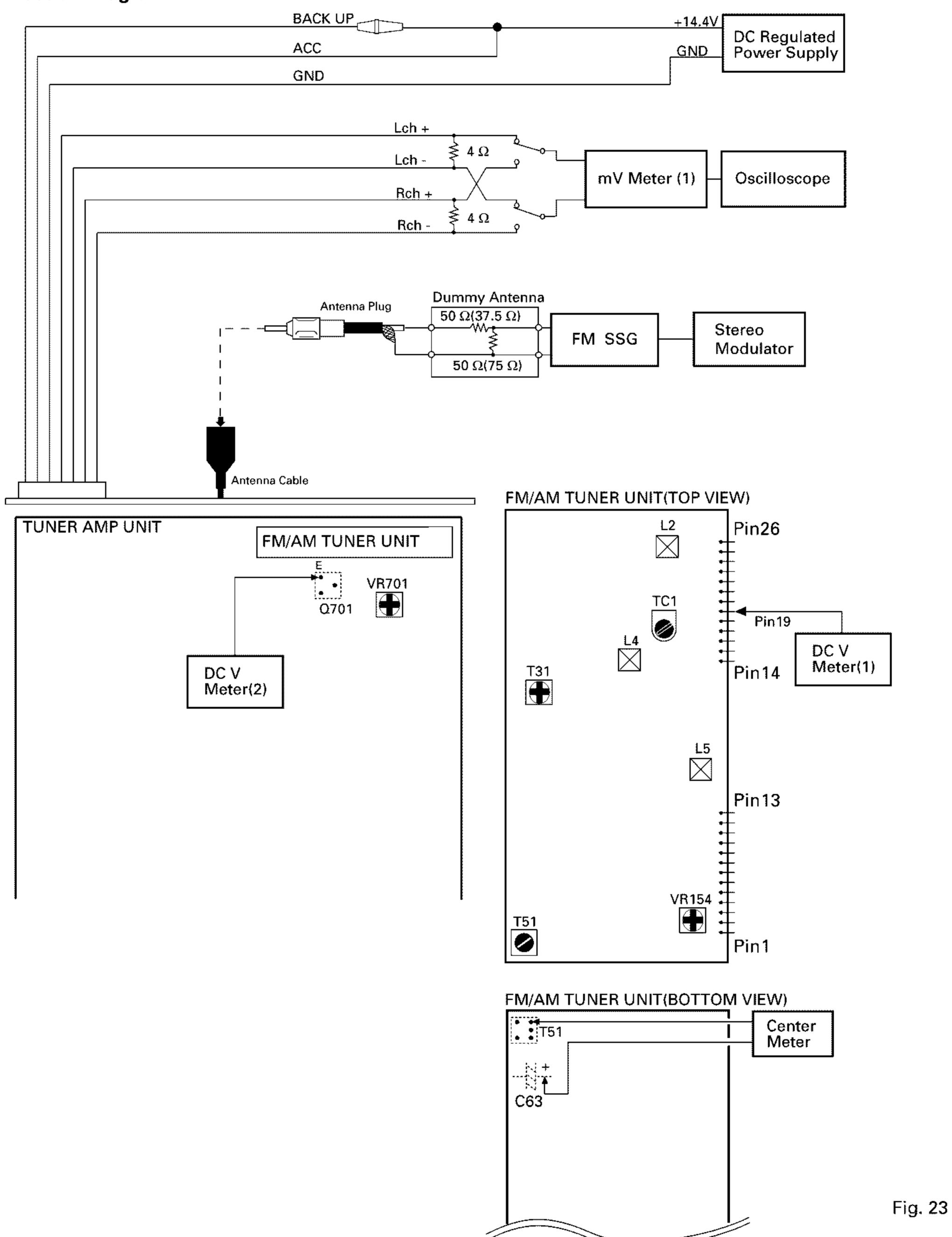
=====Circuit Symbol and No.===Part Nam	e Part No.	=====Circuit Symbol and No.===Part Name	Part No.
R 581	RD1/4PU102J	R 981	RS1/10S1R0J
R 582	RD1/4PU102J	R 983	RS1/10S472J
R 583	RS1/10S562J	R 985	RD1/4PU102J
R 584	RD1/4PU102J	R 987	RS1/10S221J
R 601	RN1/10SE2202D	R 991	RD1/4PU221J
R 602 R 603 R 604 R 605 R 606	RD1/4PU912J RS1/10S104J RS1/10S393J RD1/4PU102J RS1/10S124J	R 992 R 993 R 994 CAPACITORS	RD1/4PU221J RS1/10S472J RS1/10S222J
R 607	RS1/10S473J	C 411	CKSQYB471K50
R 621	RD1/4PU473J	C 412	CKSQYB223K50
R 626	RS1/10S0R0J	C 431	CEJA100M16
R 628	RS1/10S473J	C 432	CEJA100M16
R 638	RD1/4PU473J	C 441	CEJA1R0M50
R 639	RD1/4PU473J	C 442	CEJA1R0M50
R 641	RS1/10S202J	C 443	CKSQYB223K50
R 642	RD1/4PU102J	C 444	CKSQYB223K50
R 651	RD1/4PU472J	C 445	CKSQYB102K50
R 652	RD1/4PU472J	C 446	CKSQYB102K50
R 653	RS1/10S222J	C 447	CKSQYB102K50
R 654	RS1/10S222J	C 451	CEJA2R2M50
R 655	RD1/4PU222J	C 452	CEJA2R2M50
R 656	RD1/4PU472J	C 453	CEJA4R7M35
R 657	RD1/4PU222J	C 454	CEJA4R7M35
R 658	RS1/8S222J	C 455	CKSQYB104K50
R 659	RD1/4PU473J	C 456	CKSQYB104K50
R 661	RS1/10S1R0J	C 457	CEJANP100M16
R 664	RS1/10S472J	C 458	CEJANP100M16
R 665	RD1/4PU102J	C 459	CKSQYB822K50
R 668	RD1/4PU222J	C 460	CKSQYB822K50
R 681	RD1/4PU222J	C 461	CEJA1R0M50
R 682	RD1/4PU222J	C 462	CEJA1R0M50
R 683	RD1/4PU222J	C 469	CEAL2R2M50
R 688	RD1/4PU681J	C 470	CEJA2R2M50
R 691	RS1/10S102J	C 471	CKSQYB333K50
R 692	RS1/8S102J	C 472	CKSQYB333K50
R 693	RS1/10S102J	C 473	CEJA220M6R3
R 701	RS1/8S102J	C 474	CEJA2R2M50
R 702	RD1/4PU151J	C 477	CKSQYB104K50
R 703	RS1/10S103J	C 481	CEJA470M10
R 707	RD1/4PU102J	C 482	CKSQYB104K50
R 709	RS1/10S333J	C 483	CKSQYB183K50
R 710	RD1/4PU102J	C 484	CKSQYB183K50
R 711	RS1/10S102J	C 485	CKSQYB102K50
R 712	RS1/10S102J	C 486	CKSQYB102K50
R 713	RS1/10S102J	C 501	CKSQYB103K50
R 714	RS1/10S102J	C 504	CKSQYB473K50
R 715	RD1/4PU562J	C 506	CKSYB103K50
R 716	RS1/10S104J	C 507	CKSQYB102K50
R 717	RS1/10S104J	C 508	CKSQYB103K50
R 718	RS1/10S102J	C 510	CEJA220M10
R 719	RS1/10S222J	C 512	CEJA220M10
R 720	RS1/10S222J	C 513	CKSQYB473K50
R 721	RS1/10S684J	C 515	CKSQYB223K50
R 722	RS1/10S681J	C 518 4.7μF/16V	CCH1250
R 723	RS1/10S562J	C 519	CKSQYB103K50
R 951	RD1/4PU471J	C 522	CEJA220M10
R 958	RD1/4PU102J	C 523	CKSQYB104K50
R 961	RS1/10S472J	C 524	CCSQCH150J50
R 962	RD1/2PM561J	C 525	CCSQCH150J50
R 971	RS1/10S473J	C 527	CKSQYB103K50
R 972	RS1/10S473J	C 529	CKSQYB103K50
R 973	RS1/10S473J	C 530	CKSQYB103K50
R 974	RS1/10S473J	C 531	CCSCH101J50
R 975	RS1/10S103J	C 535	CKSQYB223K50
R 976	RS1/10S473J	C 541	CKSQYB223K50
R 977	RS1/10S101J	C 543	CKSQYB103K50
R 978	RS1/10S472J	C 544	CKSQYB102K50
R 979	RS1/10S472J	C 546	CCSQCH101J50

<u></u>	==Circu	it Symbol and No.===Part Name	Part No.	==	===Circ	uit Symbol and No.===Part Name	Part No.
00000	551 552 553 554 556	3300µF/16V	CEJAR22M50 CEJAR22M50 CEJAR22M50 CEJAR22M50 CCH1150		Unit	Number: CWM5571(DEH-345R/X/ Number: CWM5572(DEH-344R/X/ (DEH-343R/X/ Name: Keyboard Unit	IM/EW)
C	990	3300μr/ 10 V	ССПТТО	MI	SCELLA	NEOUS	
C	570 571		CEJA100M16 CEJA330M10	IC	1801	IC	PD6196A
C	572		CEJA1R0M50	D	1801	Diode	DA204K
Ç	573 574		CKSYB104K50 CEJA1R0M50	D X	1812 1801	Diode Ceramic Resonator 4.97MHz	DA204K CSS1422
Ü	4 /4		CLOA MONIO	ÎL	1801	Lamp 14V 40mA	CEL1547
С	591		CEJA220M10				
С	604		CEJA4R7M35			(Except for DEH-345R/X1M/EW)	CEL1479
Č	606		CKSQYB473K50	IL	1802	Lamp 14V 40mA	CEL1547
C	607		CEJA2R2M50		4000	(Except for DEH-345R/X1M/EW)	CEL1479
С	608		CKSYB102K50	IL.	1803	Lamp 14V 40mA	CEL1547
С	610		CCSQCH101J50			(Except for DEH-345R/X1M/EW)	CEL1479
č	611		CCSQCH101J50	IL	1804	Lamp 14V 40mA	CEL1547
č	651		CKSQYB473K50			(Except for DEH-345R/X1M/EW)	CEL1479
C	652		CEJA4R7M35	IL	1805	Lamp 14V 40mA	CEL1547
С	654		CCSQCH101J50			(Except for DEH-345R/X1M/EW)	CEL1479
^	701		CVCVD10EV16	LÇ	D1801	LCD	CAW1453
C	701 703		CKSYB105K16 CKSQYB103K50	BE	SISTOR	ς	
č	704		CKSQYB222K50	115	0101011	•	
č	705		CKSQYB104K50	R	1801		RS1/8S222J
Ċ	706		CKSQYB472K50	R	1802		RS1/8S222J
				R	1807		RS1/10S0R0J
Č	707		CKSQYB104K50	R	1810		RS1/10S0R0J
C	709 710		CEJA4R7M35 CKSQYB223K50	R	1811		RS1/10S471J
Č	710		CCSQCH220J50	R	1812		RS1/10S471J
č	712		CCSQCH220J50	R	1813		RS1/10S471J
				R	1814		RS1/10S471J
Ç	713		CKSQYB104K50	R	1817		RS1/10S0R0J
Ç	714		CKSQYB104K50	R	1818		RS1/10S0R0J
Č	715 716		CKSQYB223K50	~ ^	DACITO	DC.	
C C	716 717		CKSYB103K50 CKSQYB103K50	C)	PACITO	u9	
Č	, , ,		CROCIBIONO	С	1801		CKSQYB103K50
С	718		CKSQYB102K50				
C	961		CKSYB473K50			Number:	
C	962	470 F/40) (CCSQCH101J50	L	Unit	t Name : Detector PCB	
C	971 972	470μF/16V	CCH-114 CKSQYB473K50	N/II	SCELLA	NEOUS	
C	3/2		CR3Q164/3R30	IVII	SCELLA	IVECUS	
С	973		CEJA101M10	Q	1	Photo-transistor	CPT-230S-X
С	974		CKSQYB473K50	Q	2	Photo-transistor	CPT-230S-X
C	981		CEAS331M10			B	
C	982		CKSQYB103K50	Mi	scellane	ous Parts List	
C	983		CEJA101M16			Pickup Unit(SERVICE)	CXX1230
С	984		CKSYB473K50	М	1	Motor Unit(Spindle)	CXA9407
Č	991		CKSQYB473K50	M	2	CRG Motor Unit(Carriage)	CXA9392
C	992		CKSQYB102K50	М	3	Load Motor Unit(Loading)	CXA9391
С	993		CEAL101M10				

6. ADJUSTMENT

6.1 TUNER ADJUSTMENT

Connection Diagram



FM ADJUSTMENT(DEH-345R/X1M/EW, DEH-344R/X1M/EW, DEH-343R/X1M/GR)

Modulation M:MONO MOD., 400Hz 30%(22.5kHz Dev.)

S1:STEREO MOD., 1kHz, L or R=30%(20.25kHz+7.5kHz Dev.) S2:STEREO MOD., 1kHz, L or R=60%(40.50kHz+7.5kHz Dev.)

NOTE:Before proceeding to further adjustments after switching power ON, let the tuner run for ten minutes to allow the circuits to stabilize.

		FM SSG		Displayed	Adjustment	Adjustment Method
	No.	Frequency(MHz)	Level(dBf)	Frequency(MHz)	Point	(Switch Position)
TUN Volt	1	****	****	108.0	L5	DC V Meter(1): 6V
IF	1	98.1 M	60	98.1	T51	Center Meter: 0
ANT Coil	1	98.1 M	5	98.1	L2	mV Meter(1) : Maximum
RF Coil	1	98.1 M	5	98.1	L4	mV Meter(1) : Maximum
lmage	1	129.3 M	60—80	107.9	TC1	mV Meter(1) : Minimum
IFT	1	98.1 M	5	98.1	T31	mV Meter(1) : Maximum
						(STEREO MODE)
ARC	1	98.1 S1	39	98.1	VR154	mV Meter(1) : Separation 5dB
						(STEREO MODE)

RDS SL ADJUSTMENT(DEH-345R/X1M/EW, DEH-344R/X1M/EW, DEH-343R/X1M/GR)

	FM SSG		SG	Displayed Adjustment		nt Adjustment Method	
		No.	Frequency(MHz)	Level(dBf)	Frequency(MHz)	Point	(Switch Position)
ſ		1	104.0 S2	35	104.0	VR701	DC V Meter(2): 1.75V±0.05V

6.2 CD SECTION

1)Precautions

- This unit uses a single power supply (+5V) for the regulator. The signal reference potential, therefore, is connected to REFO(approx. 2.5V) instead of GND.
 - If REFO and GND are connected to each other by mistake during adjustments, not only will it be impossible to measure the potential correctly, but the servo will malfunction and a severe shock will be applied to the pick-up. To avoid this, take special note of the following.
 - Do not connect the negative probe of the measuring equipment to REFO and GND together. It is especially important not to connect the channel 1 negative probe of the oscilloscope to REFO with the channel 2 negative probe connected to GND.
 - Since the frame of the measuring instrument is usually at the same potential as the negative probe, change the frame of the measuring instrument to floating status.
 - If by accident REFO comes in contact with GND, immediately switch the regulator or power OFF.
- Always make sure the regulator is OFF when connecting ing and disconnecting the various filters and wiring required for measurements.
- Before proceeding to further adjustments and measurements after switching regulator ON, let the player run for about one minute to allow the circuits to stabilize.
- Since the protective systems in the unit's software are rendered inoperative in test mode, be very careful to avoid mechanical and /or electrical shocks to the system when making adjustment.
- Test mode starting procedure
 Switch ACC, back-up ON while pressing the 4 and 6 keys together.

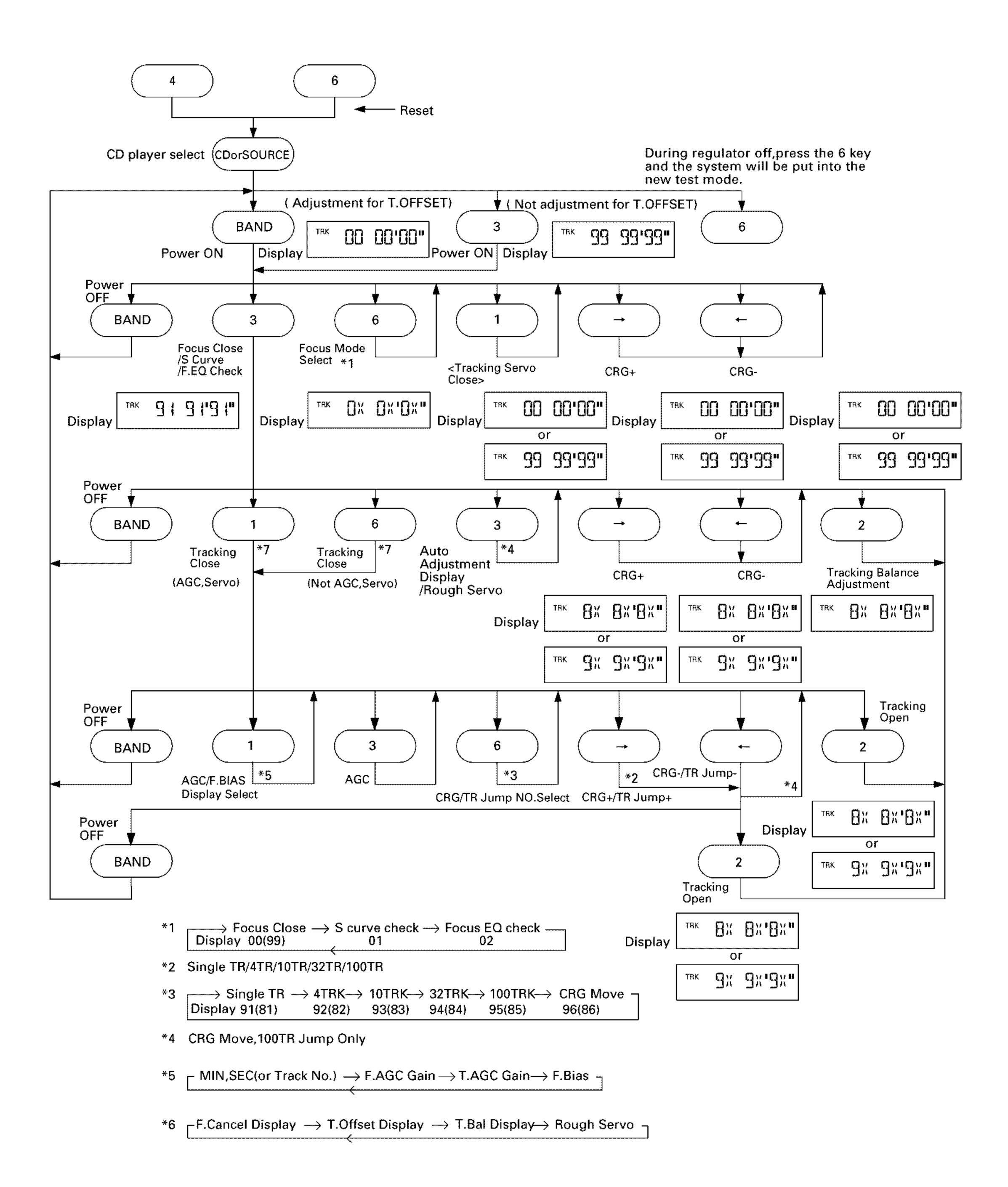
Test mode cancellation
 Switch ACC, back-up OFF.

photo transistor.

- Disc detection during loading and eject operations is performed by means of a photo transistor in this unit. Consequently, if the inside of the unit is exposed to a strong light source when the outer casing is removed for repairs or adjustment, the following malfunctions may occur.
 - *During PLAY, even if the eject button is pressed, the disc will not be ejected and the unit will remain in the PLAY mode.
 - *The unit will not load a disc.

 When the unit malfunctions this way, either re-position the light source, move the unit or cover the
- When loading and unloading discs during adjustment procedures, always wait for the disc to be properly clamped or ejected before pressing another key. Otherwise, there is a risk of the actuator being destroyed.
- Turn power off when pressing the button TR+ or the button TR- key for focus search in the test mode. (Or else lens may stick and the actuator may be damaged.)
- SINGLE/4TRK/10TRK/32TRK will continue to operate even after the key is released. Tracking is closed the moment C-MOVE is released.
- JUMP MODE resets to SINGLE as soon as power is switched OFF.

Flow Chart



6.3 CHECKING THE GRATING AFTER CHANGING THE PICKUP UNIT

·Note:

Unlike previous CD mechanism modules the grating angle of the PU unit cannot be adjusted after the PU unit is changed. The PU unit in the CD mechanism module is adjusted on the production line to match the CD mechanism module and is thus the best adjusted PU unit for the CD mechanism module. Changing the PU unit is thus best considered as a last resort. However, if the PU unit must be changed, the grating should be checked using the procedure below.

· Purpose:

To check that the grating is within an acceptable range.

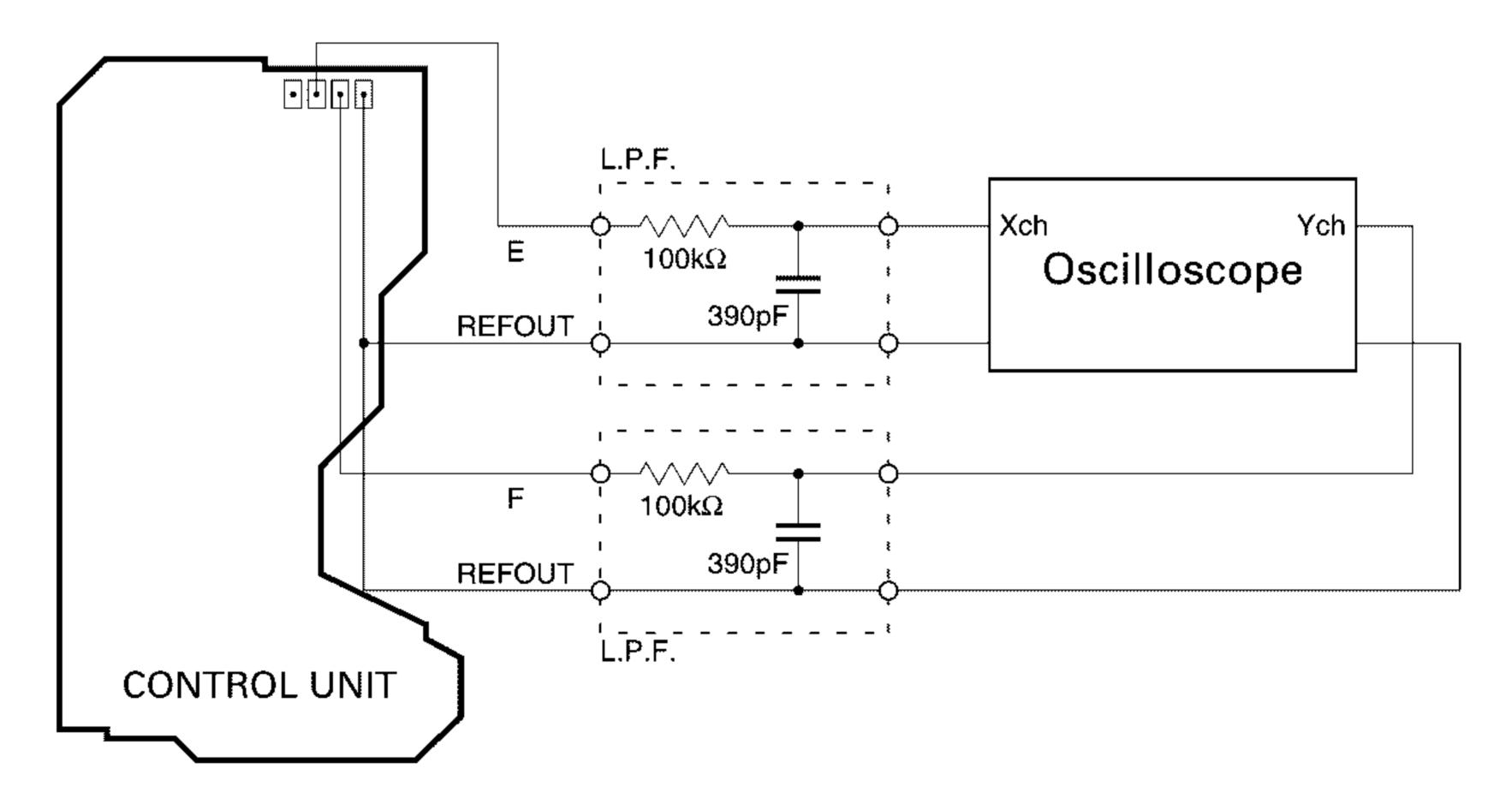
Symptoms of Mal-adjustment :

If the grating is off by a large amount symptoms such as being unable to close tracking, being unable to perform track search operations, or track searching taking a long time, may appear.

· Method:

Measuring Equipment
 Oscilloscope, Two L.P.F.

Measuring Points
 Disc
 Mode
 E, F, REFOUT
 ABEX TCD-784
 TEST MODE



· Checking Procedure

- 1. In test mode, load the disc and switch the 5V regulator on.
- 2. Using the TR+ and TR- buttons, move the PU unit to the innermost track.
- 3. Press key 3 to close focus, the display should read "91". Press key 2 to implement the tracking balance adjustment the display should now read "81". Press key 3 4 times. The display will change, returning to "81" on the fourth press.
- 4. As shown in the diagram above, monitor the LPF outputs using the oscilloscope and check that the phase difference is within 75°. Refer to the photographs supplied to determine the phase angle.
- 5. If the phase difference is determined to be greater than 75° try changing the PU unit to see if there is any improvement. If, after trying this a number of times, the grating angle does not become less than 75° then the mechanism should be judged to be at fault.

·Note

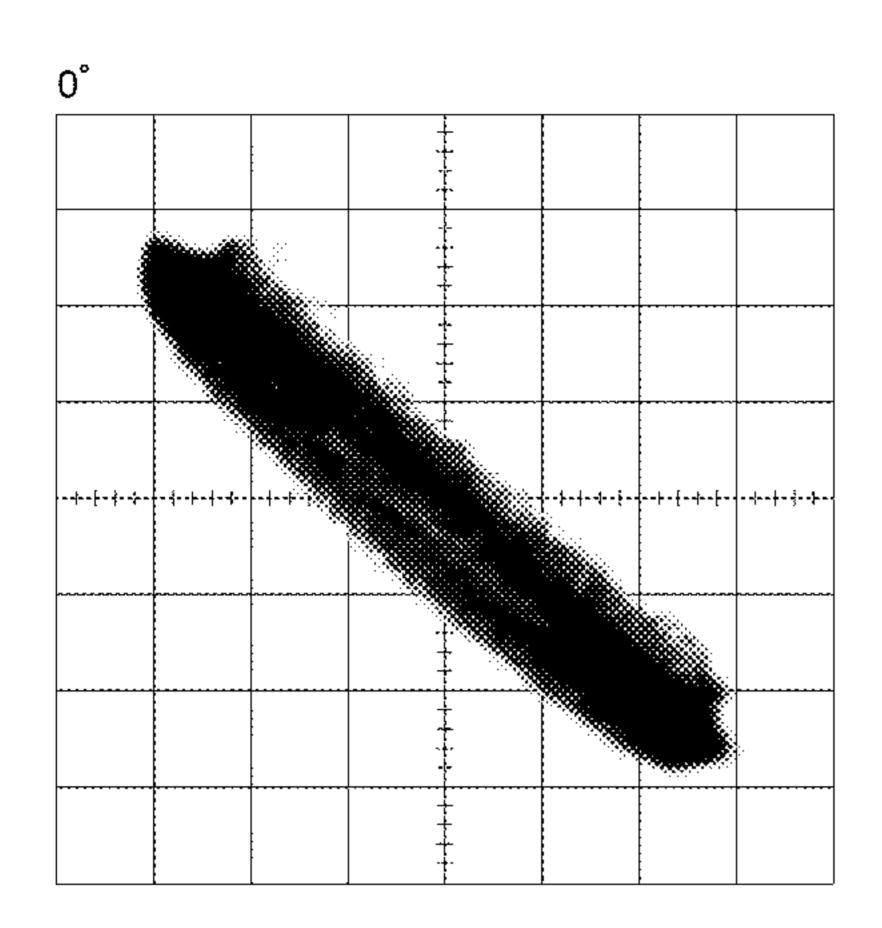
Because of eccentricity in the disc and a slight misalignment of the clamping center the grating waveform may be seen to "wobble" (the phase difference changes as the disc rotates). The angle specified above indicates the average angle.

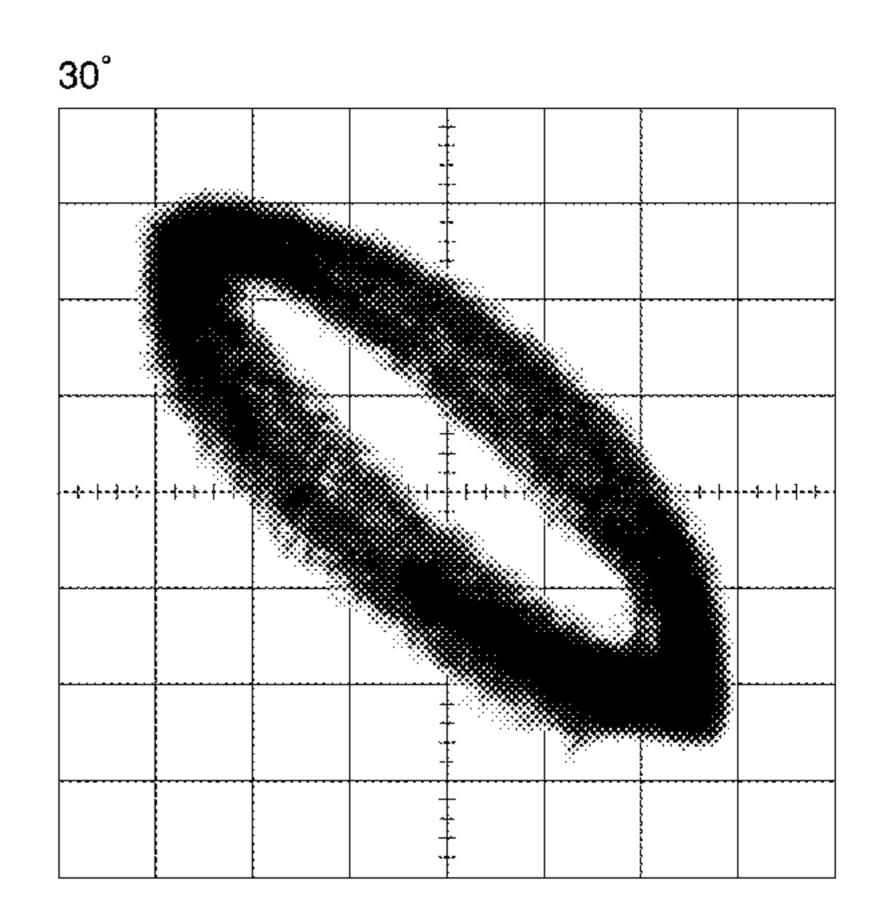
·Hint

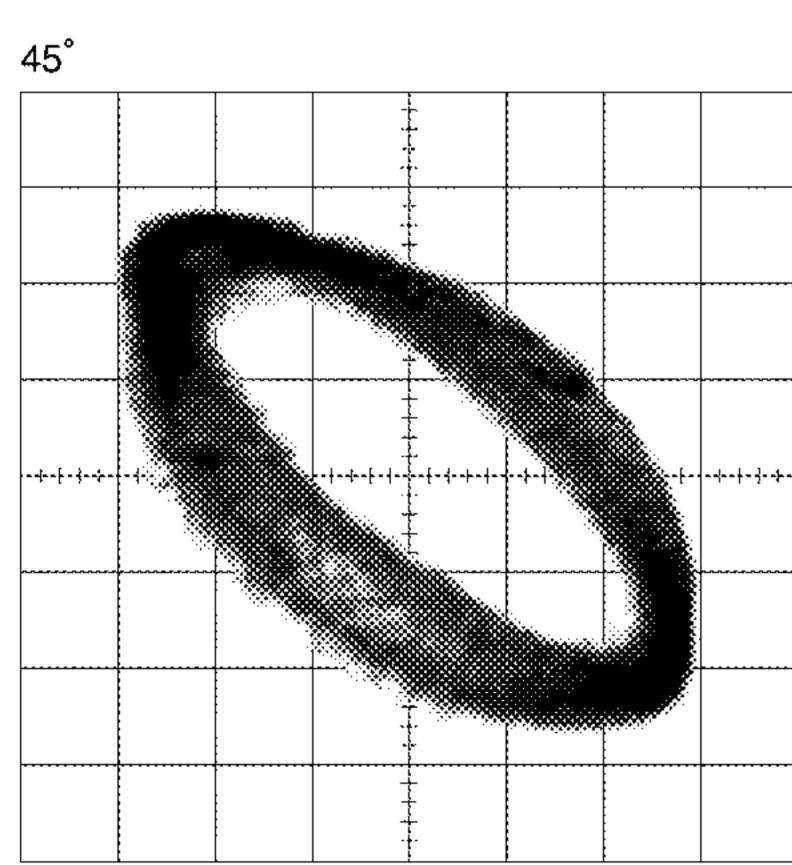
Reloading the disc changes the clamp position and may decrease the "wobble".

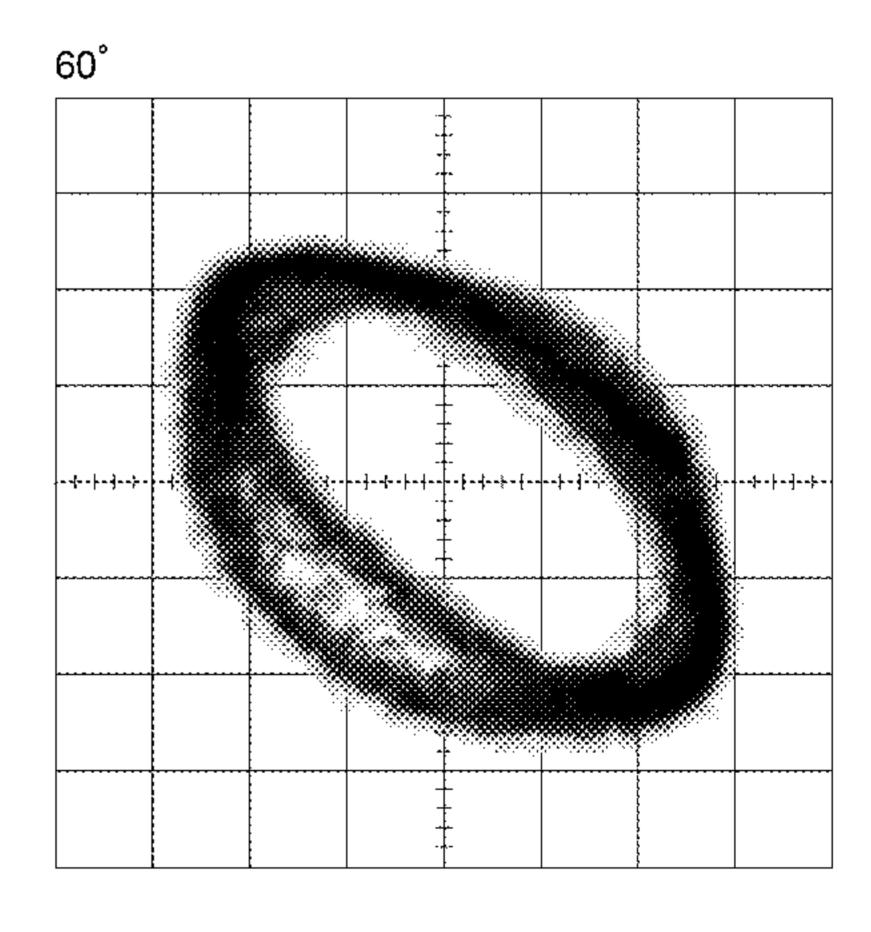
Grating waveform

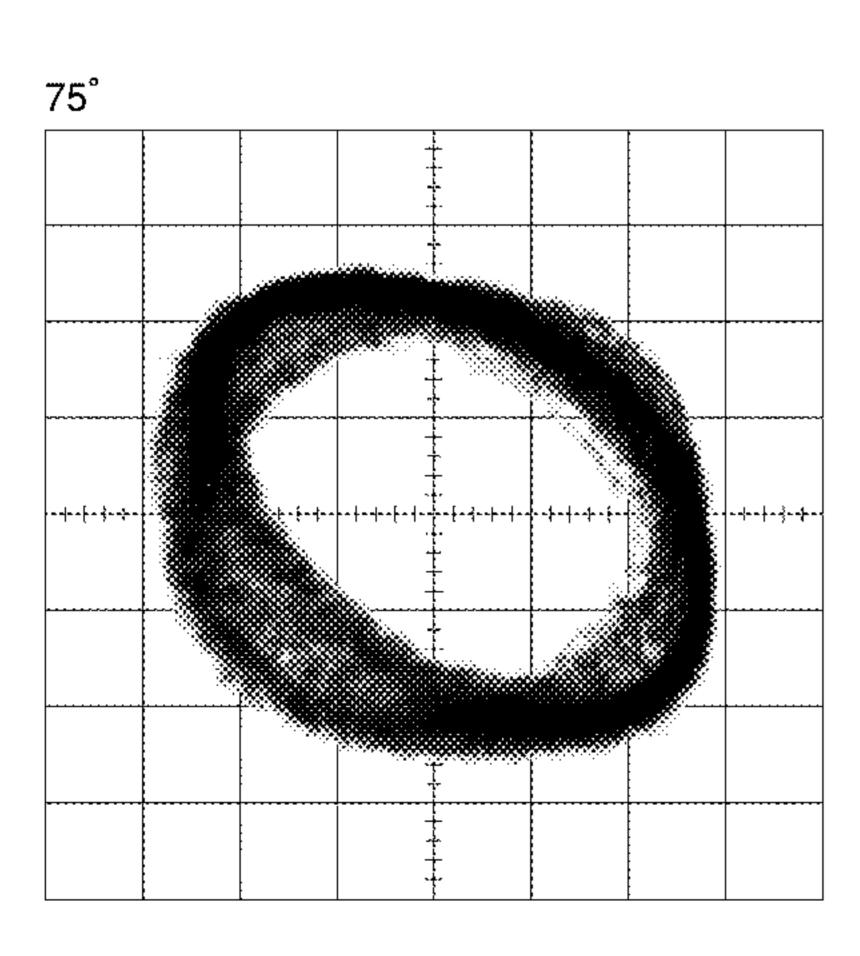
Ech → Xch 20mV/div, AC Fch → Ych 20mV/div, AC

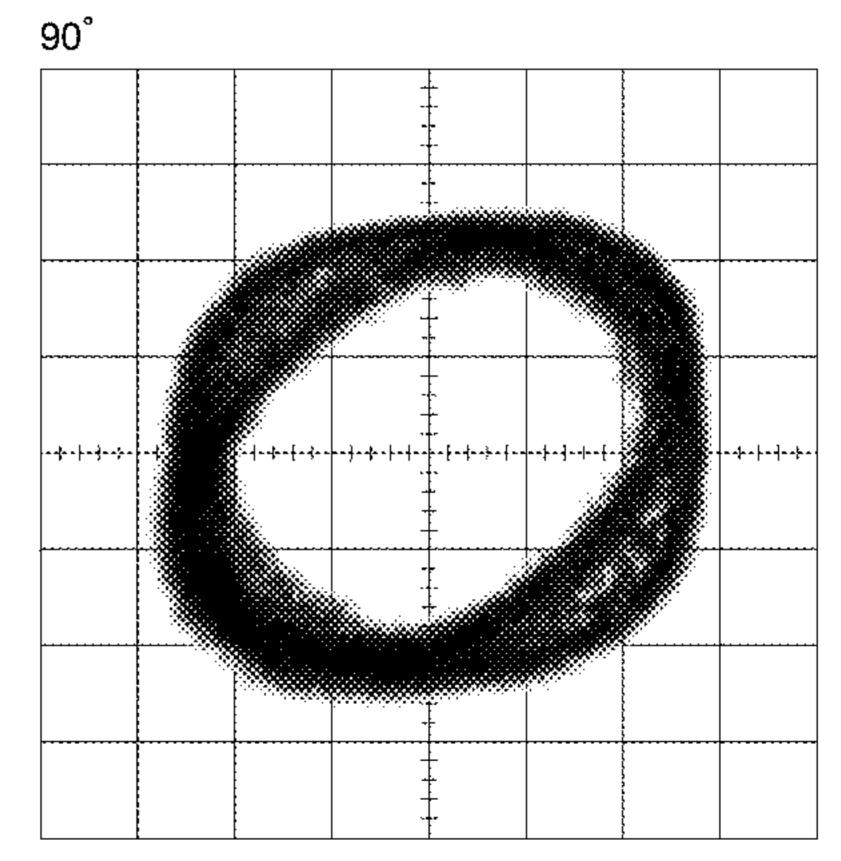










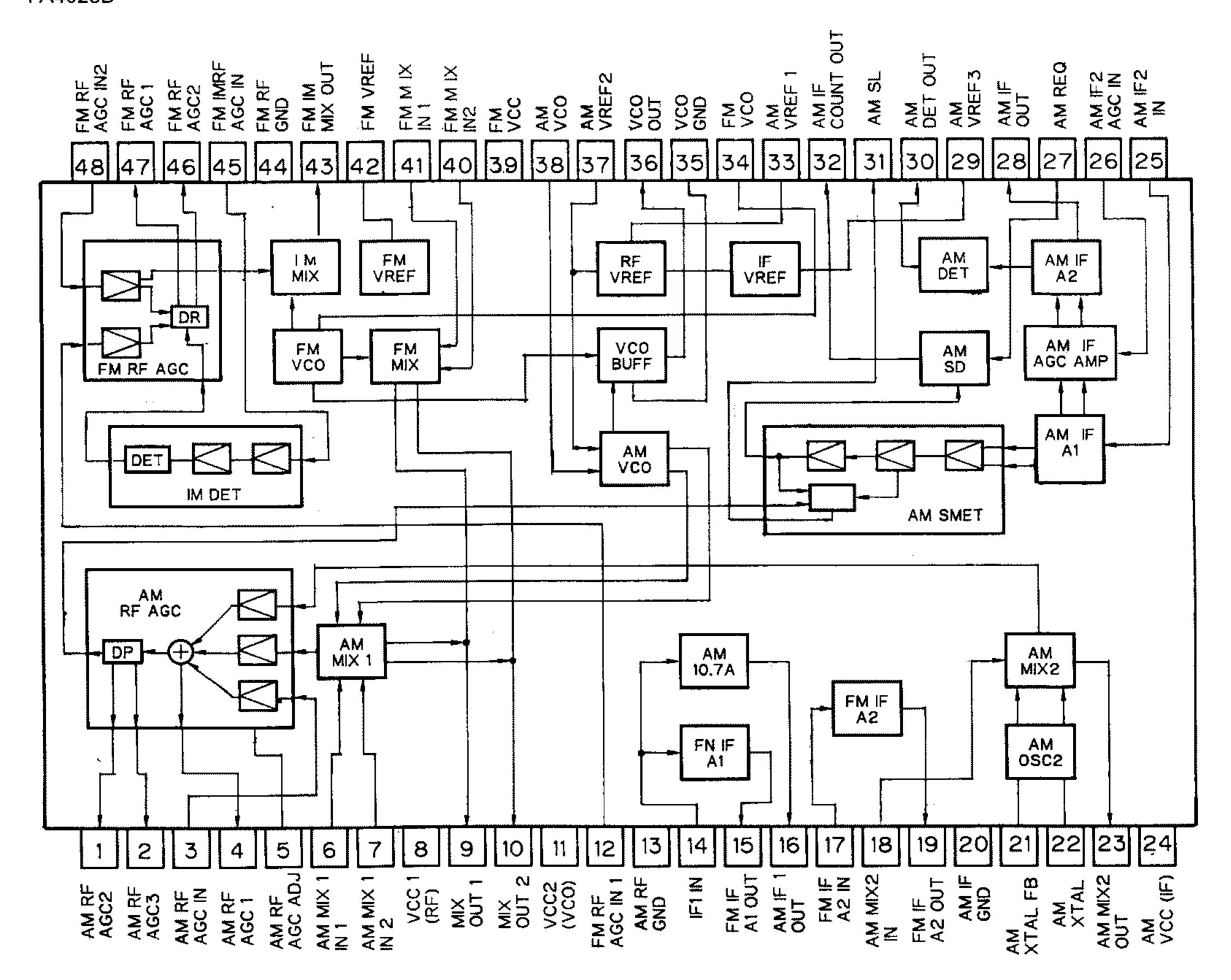


7. GENERAL INFORMATION

7.1 PARTS

7.1.1 IC

PA4023B

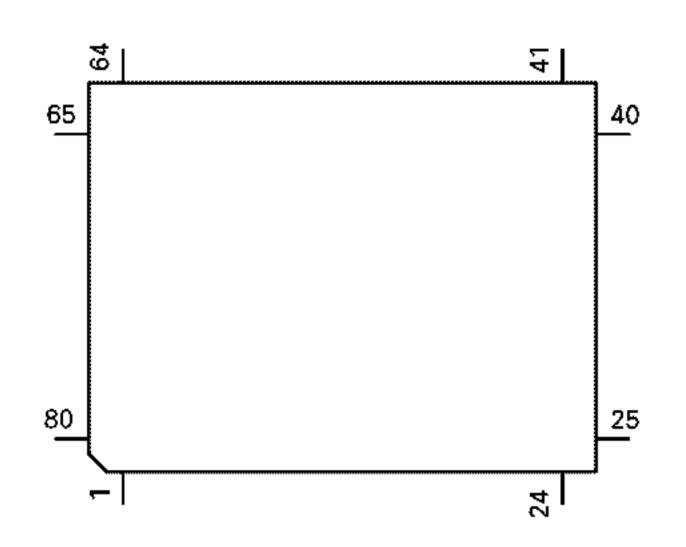


Pin Functions (UPD63702AGF)

	tions (UPD637)	<u> </u>	T
Pin No.	Pin Name	1/0	Function and Operation
1	D.VDD		Supplies current of positive voltage to the logic circuits
2	RST		System reset input pin
3	AO		Microcomputer interface
			AO="L": STB active and set to address register
			AO="H": STB active and set to parameter
4	STB	1	Signal to latch serial data within the LSI
5	SCK	- 	Clock input pin to input and output serial data
6	SO	0	Outputs serial data and status signal
7	SI	1	Serial data input pin
8	D.GND		
		+	Logic circuit GND
9	X.GND	1	Crystal oscillation circuit GND
10	XTAL	1	Crystal oscillator connection pin
11	XTAL	0	Crystal oscillator connection pin
12	X.VDD		Supplies current of positive voltage to the crystal oscillation circuit
13	DA.VDD		Supplies current of positive voltage to the D/A converter
14	R+	0	Right channel analog audio data output pin
15	R-	0	Right channel analog audio data output pin
16,17	DA.GND		D/A converter GND
18	L-	0	Left channel analog audio data output pin
19	L+	0	Left channel analog audio data output pin
20	DA.VDD		Supplies current of positive voltage to the D/A converter
21	D.VDD		Supplies current of positive voltage to logic circuit
22	FLAG	0	Flag output pin to indicate that audio data currently being output consists of
		~	noncorrectable data
23	WDCK	0	Pin to output double the frequency of LRCK
24	C16M	0	Pin to output the clock
25	EMPH	0	Output pin for the pre-emphasis data in the sub-Q code
26	DIN	1	Input pin for serial audio data
27	DOUT	0	Output pin for the serial audio data
28	SCKO	0	Output pin for the clock for the serial audio data
29	LRCK	0	Signals to distinguish the right and left channels of the audio data output
			from DOUT. Frequency is 44.1kHz at 50% duty at normal regeneration
30	TX	0	Output pin for the digital audio interface data
31	CTLV		Oscillation control pin for high-frequency clock generation VCO used for the
			digital PLL upon regeneration at fast speed of 2- or 4-fold
32	POUT	0	Output point for phase comparison
33	D.GND		GND for the logic circuit
34	VCO	1	Input pin for the inverter
35	VCO	0	Output pin for the inverter
36	D.VDD	<u> </u>	Supplies current of positive voltage to the logic circuit
37	PLCK	0	Pin for monitoring the bit clock
38	LOCK	0	Indicates "H" when the synchronized pattern detection signal matches the
			frame counter output at the EFM recovery modulation, and "L" when they
			don't match
39	WFCK	0	Minute-cycle signal for the bit clock, the signal indicates the cycle of 1 frame
39	VVICK	1	
40	DECK	1	(approx. 7.35kHz)
40	RFCK	0	Minute-cycle signal for the clock, the signal indicates cycle of 1 frame
	D OND	+	(approx. 7.35kHz)
41	D.GND	1.	GND for the logic circuit
42,43	TESTO,1	11	Test pins
44,45	TM2, TM4	11	Pins for controlling regeneration at fast speed of 2- or 4-fold
46-49	T4-T7		Test pins
50,51	C1D1, C1D2	0	Output pin for indicating the C1 error correction results
52-54	C2D1-C2D3	0	Output pin for indicating the C2 error correction results
55	D.VDD		Supplies current of positive voltage to the logic circuit
56	SFSY	0	Outputs 1 word of the subcode. Generally, 1 cycle is approx 136 micro seconds
57	SBSY	0	The signal indicates the beginning of the subcode block. The SFSY signal is
			output at high level every 98 times
58	SBSO	0	Output pin for the subcode data
	1		~~+p~+p~+p iv, tilo occoodo data

Pin No.	Pin Name	I/O	Function and Operation
59	SBCK	<u>"</u>	Input pin for the clock signal for read-out of the subcode data
60	A.GND		GND for the analog circuit
61	MD	0	Output pin for the spindle drive
62	ŞD	0	Output pin for the sled drive
63	TD	0	Output pin for the tracking drive
64	FD	0	Output pin for the focus drive
65	FBAL	0	Output pin for the focus balance control
66	TBAL	Ο	Output pin for the tracking balance control
67	A.VDD		Supplies current of positive voltage to the analog circuit
68	TBC	1	Switches coefficient banks for the tracking filter
69	EFM	1	Input pin for the EFM signal
70	HOLD	1	Input pin for the hold control signal
71	RFOK	1	Input pin for the RFOK signal
72	MIRR	1	Input pin for the MIRR signal
73	A.GND		GND for the analog circuit
74	HOME]]	Home position detector input
75	VR1	1	The signal input through these pins is digitized to 8-bit by the A/D converter,
			which by operation of the assigned register, can be read into the microcomputer
76	FE	1	Inputs a focus-error signal from the RF amplifier
77	TE	1	Inputs a tracking-error signal from the RF amplifier
78	TEC	1	Input pin for the tracking comparator
79	REFOUT	0	Output point for midpoint potential for the A/D converter for the LSI portion
80	A.VDD		Supplies current of accurate voltage to the analog circuit

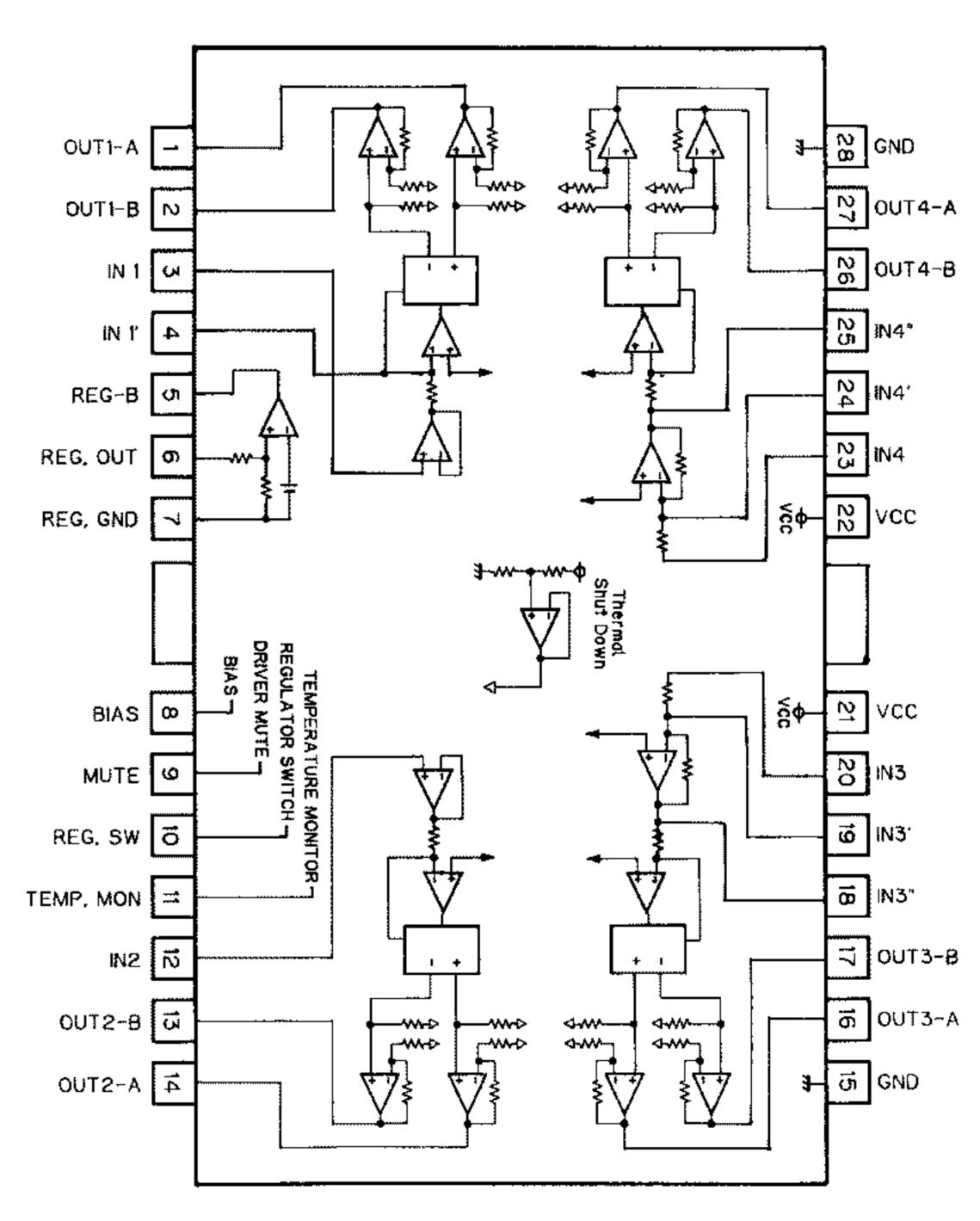
*UPD63702AGF



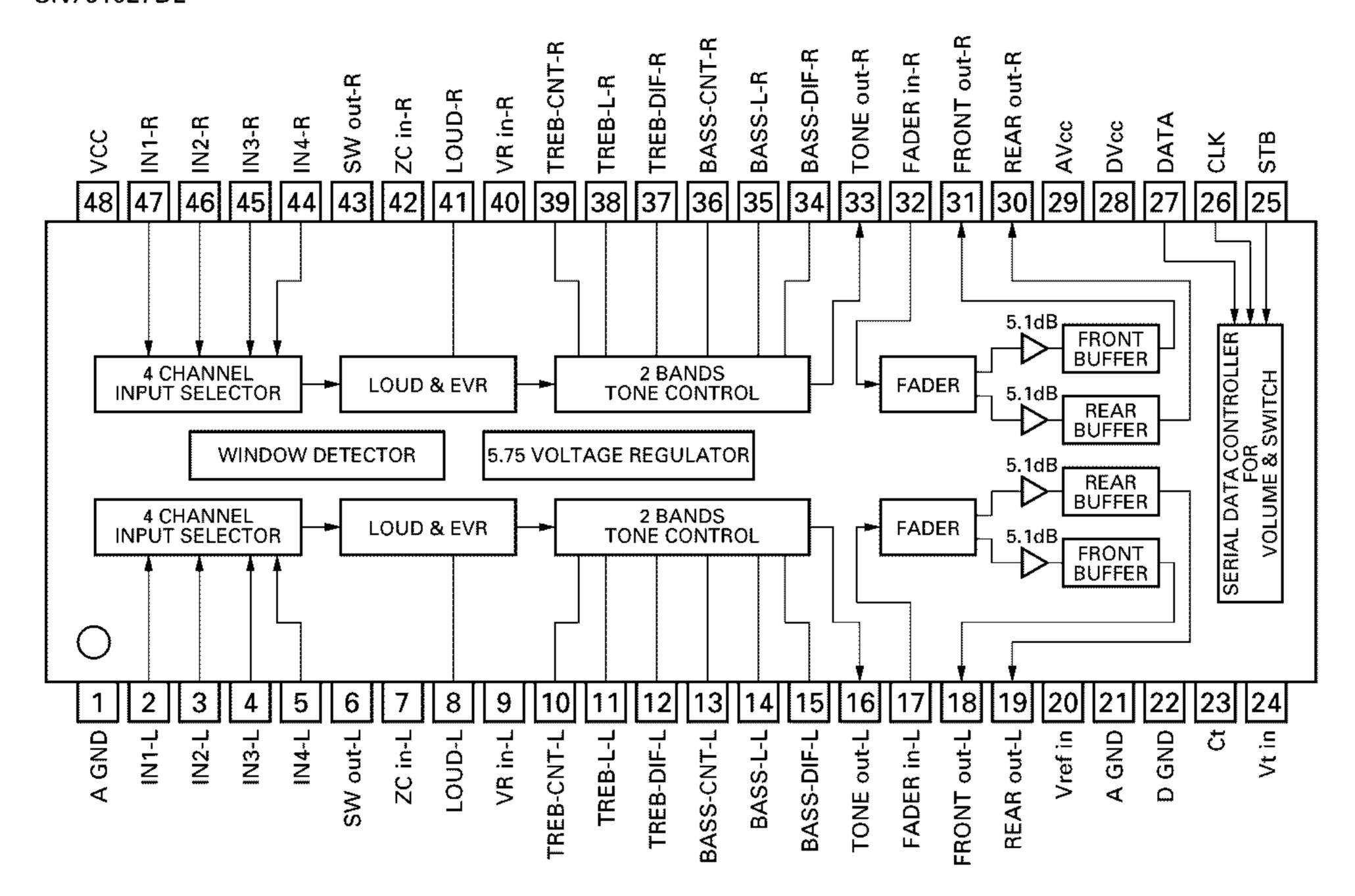
IC's marked by* are MOS type.

Be careful in handling them because they are very liable to be damaged by electrostatic induction.

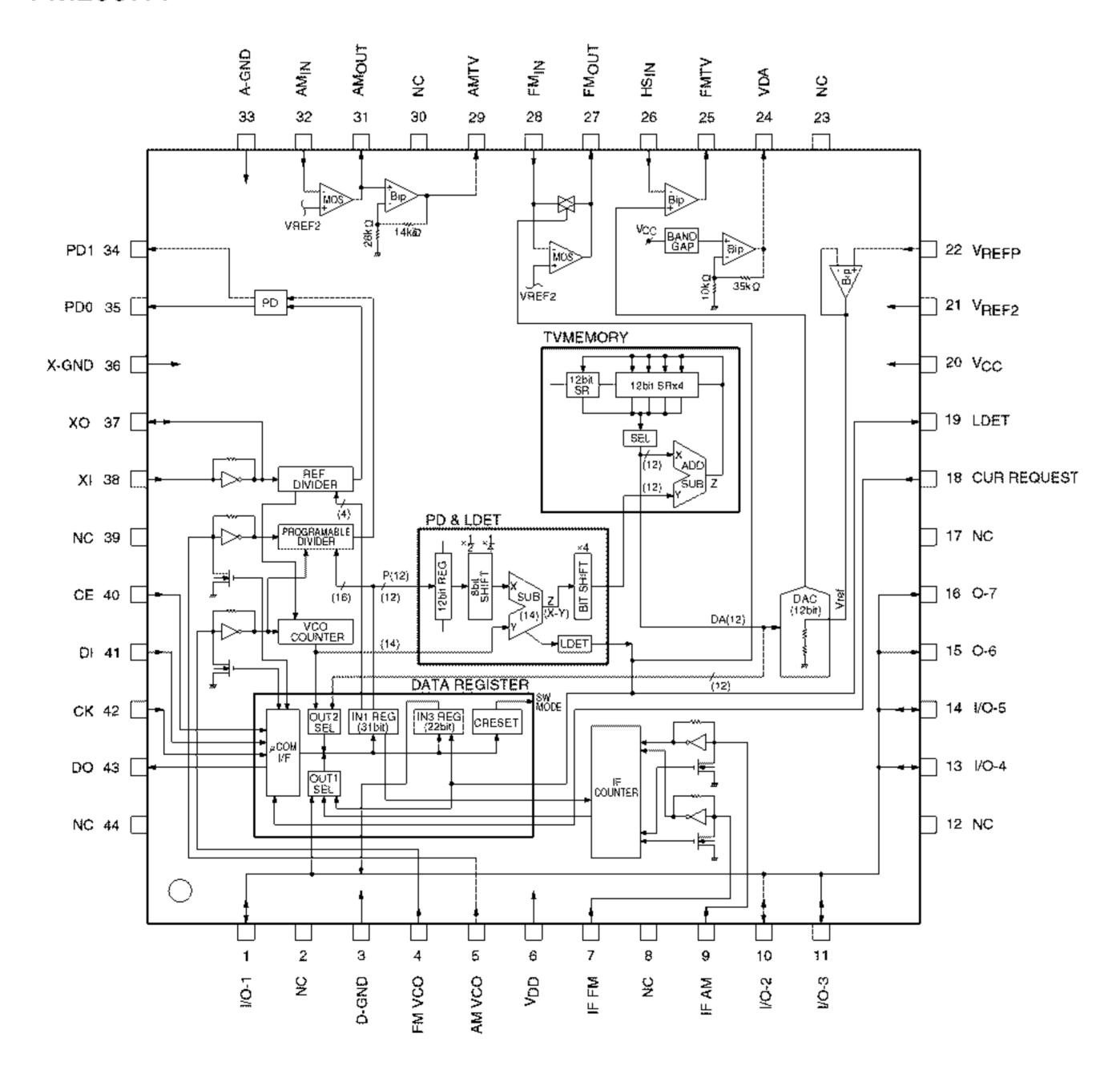
BA6997FM



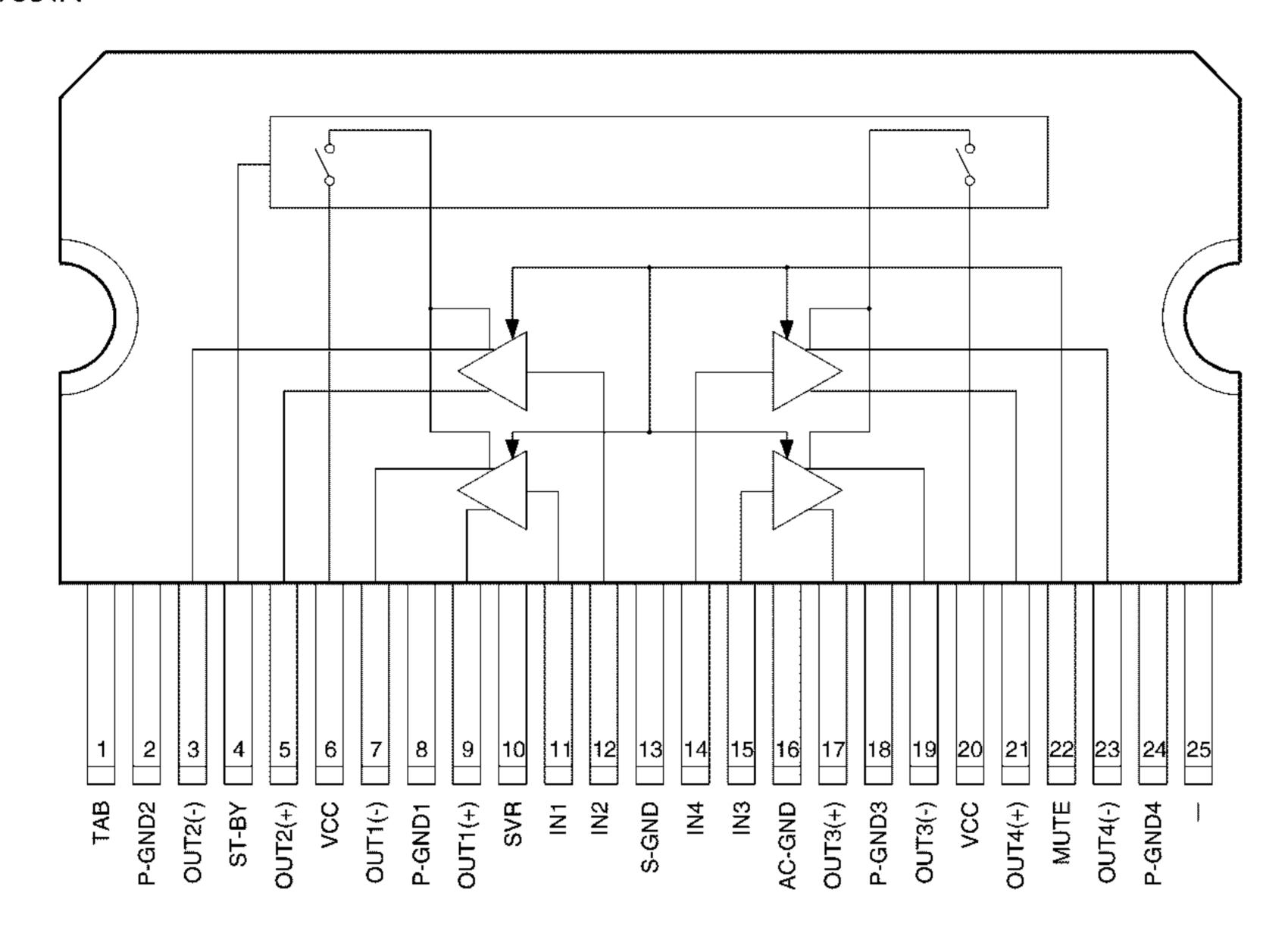
SN761027DL



PM2007A



TDA7384A

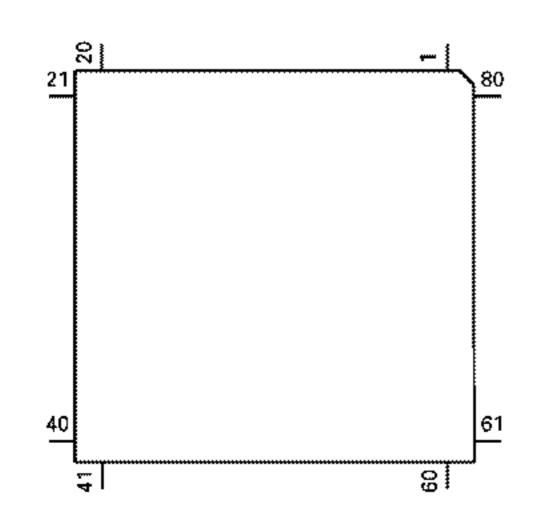


Din Eupstions (DD 4000A)

Pin Functions (PD4888A)					
Pin No.	Pin Name	I/O	Format	Function and Operation	
1	MODEL1		С	Model select 1	
2	SLIN		С	RDS signal level input	
3	NL		С	RDS noise level input	
4	AVSS			GND	
5	ST	1		Stereo input	
6	SD			SD input	
7	AVREF1			Connect to VDD	
8	KYDT			Key display micro-computer input	
9	DPDT	0	С	Key display micro-computer output	
10	MDSENS	1	С	Modulation detect input	
11	PDI			Data input from PLL IC	
12	PDO	0	С	Data output for PLL IC	
13	PCK	0	С	Clock output for PLL IC	
14	PCE	0	С	Chip enable output for PLL IC	
15	CURRQ	0	С	Tuner voltage FIX output	
16	XSI			Data input from CD mechanism module LSI	
17	XSO	0	С	Data output for CD mechanism module LSI	
18	XSCK	0	С	Clock output for CD mechanism module LSI	
19	DRST	0	С	RDS decoder reset output	
20	AM	0	С	AM power control output	
21	FM	0	С	FM power control output	
22	VDCONT	0	С	VD control output	
23	CONT	0	С	Servo driver power supply control	
24	XAO	0	С	Command/Data output for CD mechanism module LSI	
25	XRST	0	С	Reset output for CD mechanism module LSI	
26	XSTB	0	С	Strobe output for CD mechanism module LSI	
27	CLAMP	1		Disc clamp sense input	
28	MIRR			Mirror detector input	
29	FOK			Focus OK signal input	
30	LOCK			Spindle lock detector input	

Pin No.	Pin Name	I/O	Format	Function and Operation	
31	CDLOAD	0	С	Load motor loading control output	
32	NC			Not used	
33	VSS			GND	
34	CDEJET	0	С	Load motor eject control output	
35	CD5VON	0	Č	CD +5V power supply control output	
36	DLED	0	N	Alarm LED output	
37,38	MODEL2,3	ı	N	Model select 2,3 input	
39	NC	<u> </u>		Not used	
40	MUTCNT		С	Mute control input for RDS service	
41	SWVDD	0	C	Grille power supply control output	
42	SYSPW	0	С	System power supply control output	
43	ILMPW	0	С	Illumination power supply control output	
44	MUTE	0	С	System mute output	
45	PEE	0	С	Beep tone output	
46	DOORH	0	С	Door system select output	
47	RDS57K	I	С	57kHz input	
48	SK	1	С	SK input	
49	VST	0	С	Strobe pulse output for electronic volume	
50	VCK	0	С	Clock output for electronic volume	
51	VDT	0	С	Data output for electronic volume	
52	TMUTE	0	С	Tuner mute output	
53	RECIVE	0	С	RDS decoder receiving output	
54	ERROR	0	С	RDS noncorrectable output	
55	DRELAY	0	С	External relay output	
56	DRSENS]	С	Door open/close sense input	
57	LPFSW	0	С	Output for FIE	
58	RDSLK	1	С	RDSLK input	
59	RDT	l	С	RDS recovery modulation data input	
60	RESET	l		Reset input	
61	LDET	<u> </u>		PLL lock sense input	
62	RCK	<u> </u>	С	RDS clock input	
63	ASENS	<u> </u>		ACC power sense input	
64	BSENS	ı		Back up power sense input	
65	DSENS	<u> </u>		Grille detach sense	
66	CLKIN	<u> </u>		Clock input	
67	T/S	0	С	RDS fuzz'y control output	
68	VDD			Power supply	
69	X2	0		Crystal oscillator connection pin	
70	X1	l		Crystal oscillator connection pin	
71	IC .			Connect to GND	
72	XT2			Sub clock pin	
73	TESTIN	<u>_</u>		Test program mode input	
74	AVDD	<u> </u>		A/D converter analog power supply	
75	AVREF0	<u> </u>		A/D converter reference voltage	
76	SL	<u> </u>		SD level input	
77	TEMP	<u> </u>		Temperature detect input	
78	VDSENS			VD power supply short detection input	
79	DSCSNC	<u> </u>		Disc sense input	
80	EJTSNC	I	L	Disc eject position sense input	

*PD4888A

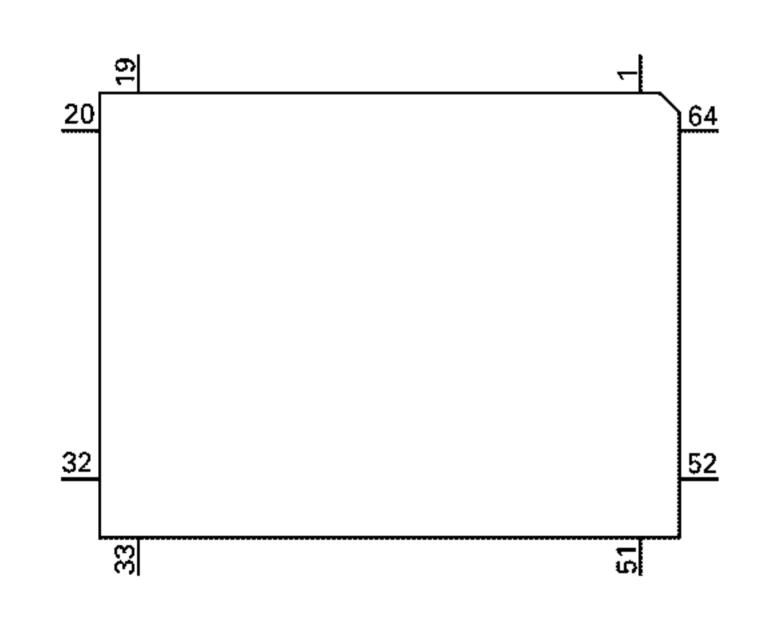


Format	Meaning
С	C MOS
Ν	N channel open drain

Pin Functions (PD6196A)

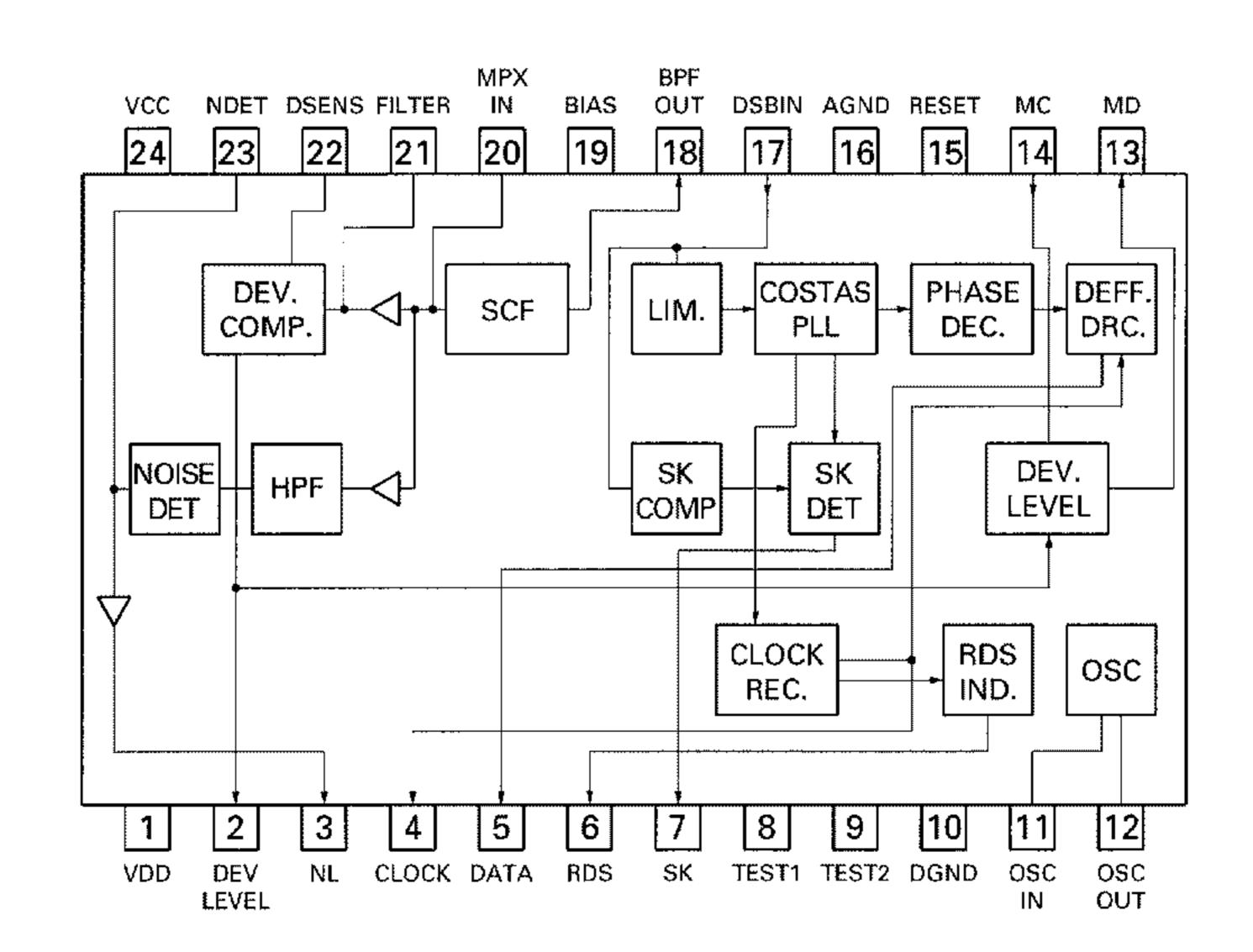
Pin No.	Pin Name	I/O	Format	Function and Operation	
1-5	SEG4-0	0		LCD segment output	
6-9	COM3-0	0		LCD common output	
10	VLCD			LCD driver power supply	
11-14	KST3-0	0	N	Key strobe output	
15,16	KDT0,1			Key data input	
17	REM			Remote control reception	
18	DPDT			UART input	
19	RST			System reset input	
20	KYDT	0	C UART output		
21	MODA	-		Direct connect to VSS terminal	
22,23	XO,XI			Crystal oscillator connection pin	
24	VSS			GND	
25,26	KDT2,3			Key data input	
27,28	KST5,4	0	N	Key strobe output	
29-55	SEG39-13	0		LCD segment output	
56	VDD	0		Power supply terminal	
57-64	SEG12-5	0		LCD segment output	

*PD6196A



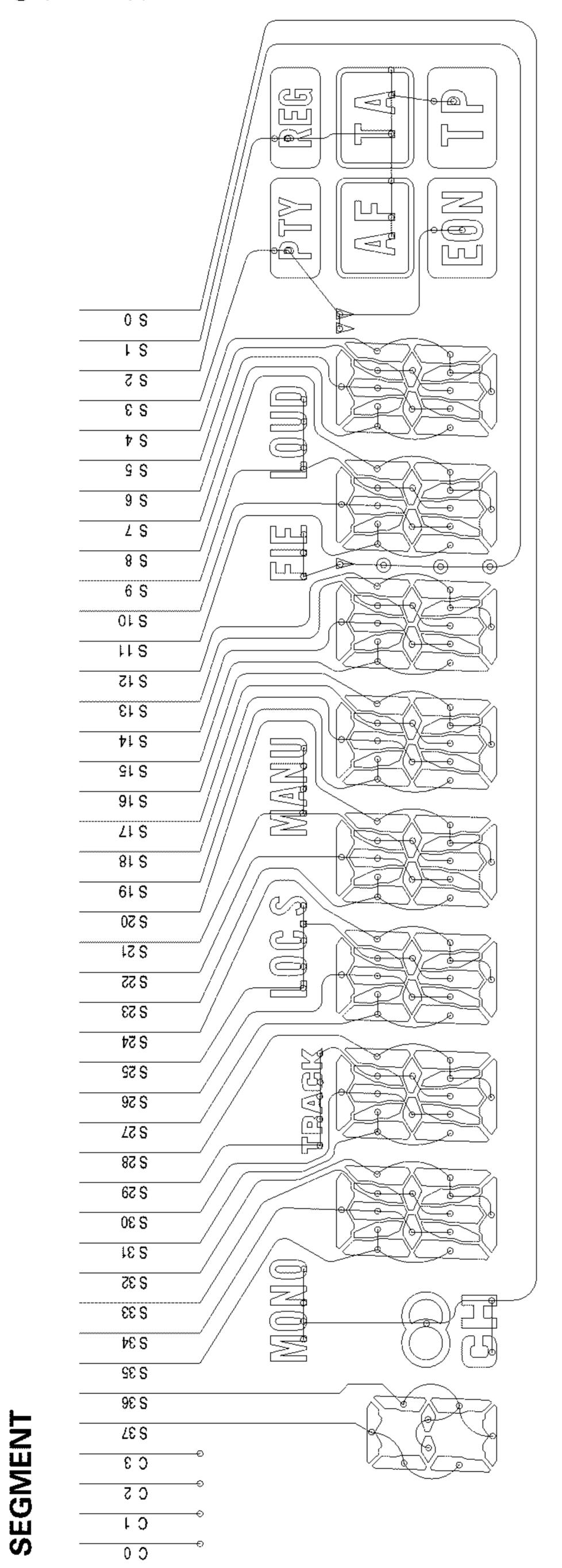
Format	Meaning
С	C MOS
Ν	N channel open drain

*PM4006B



7.1.2 DISPLAY

● CAW1453



C 3 C S CI 0 0

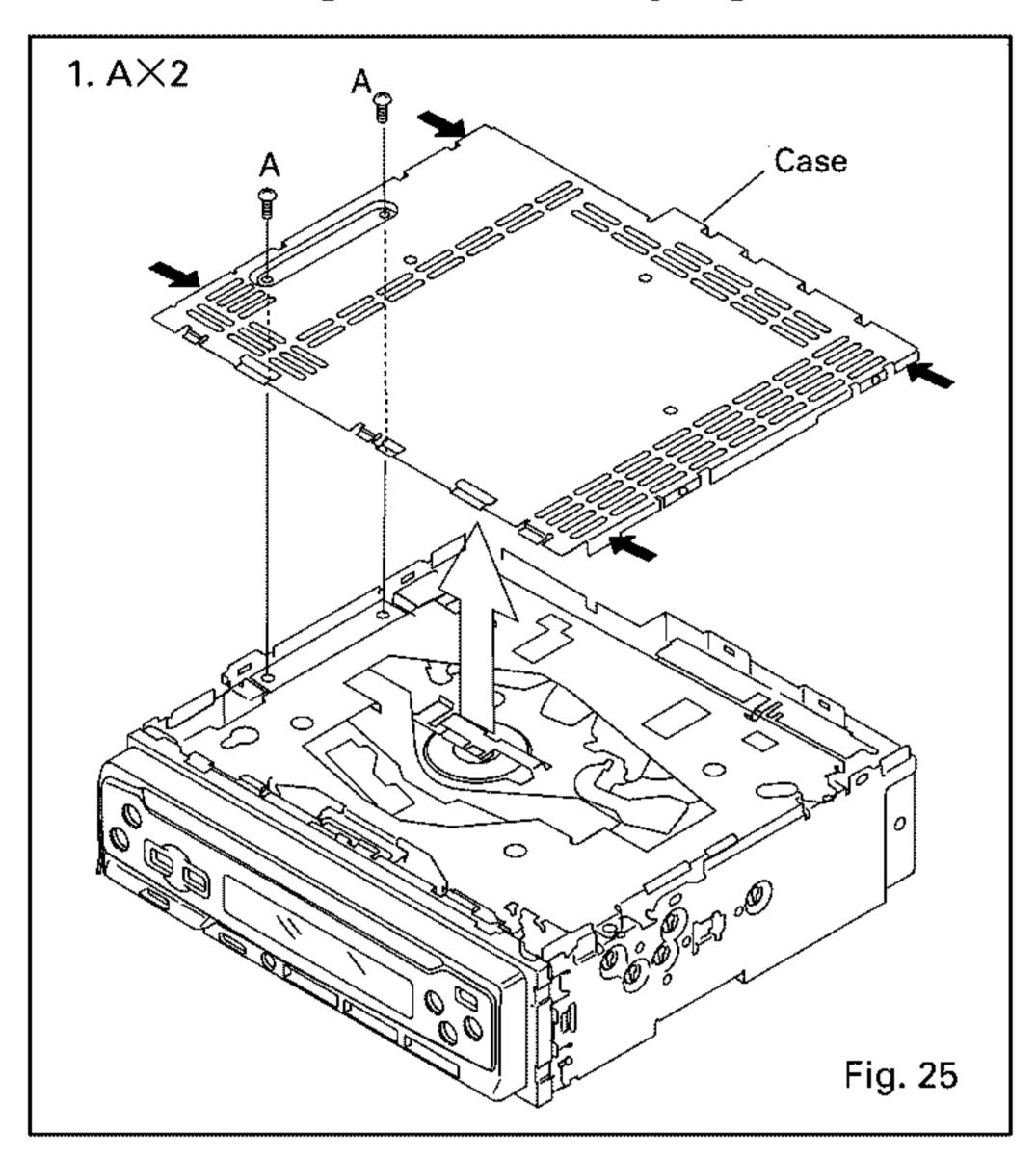
COMMON

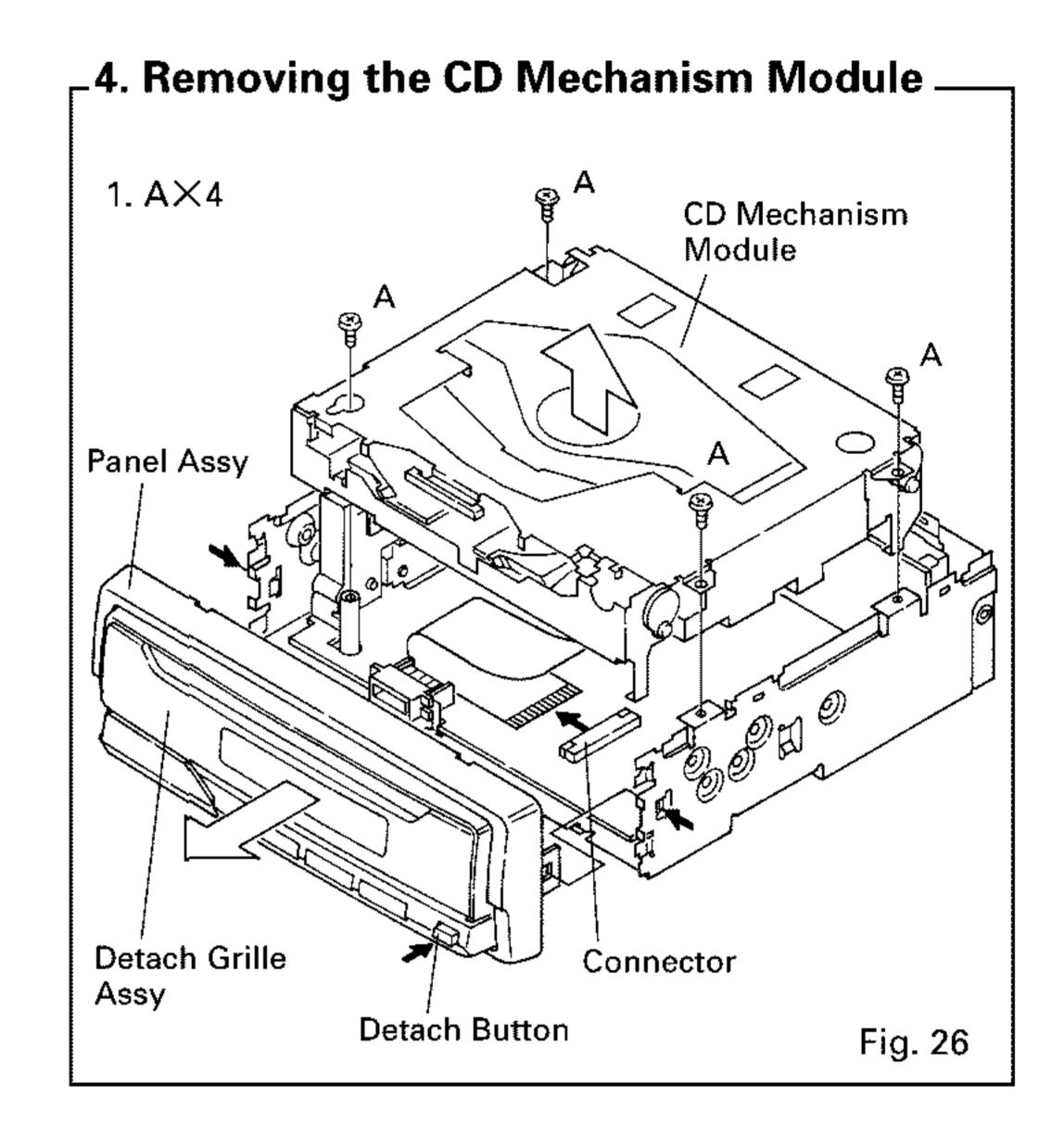
Fig. 24

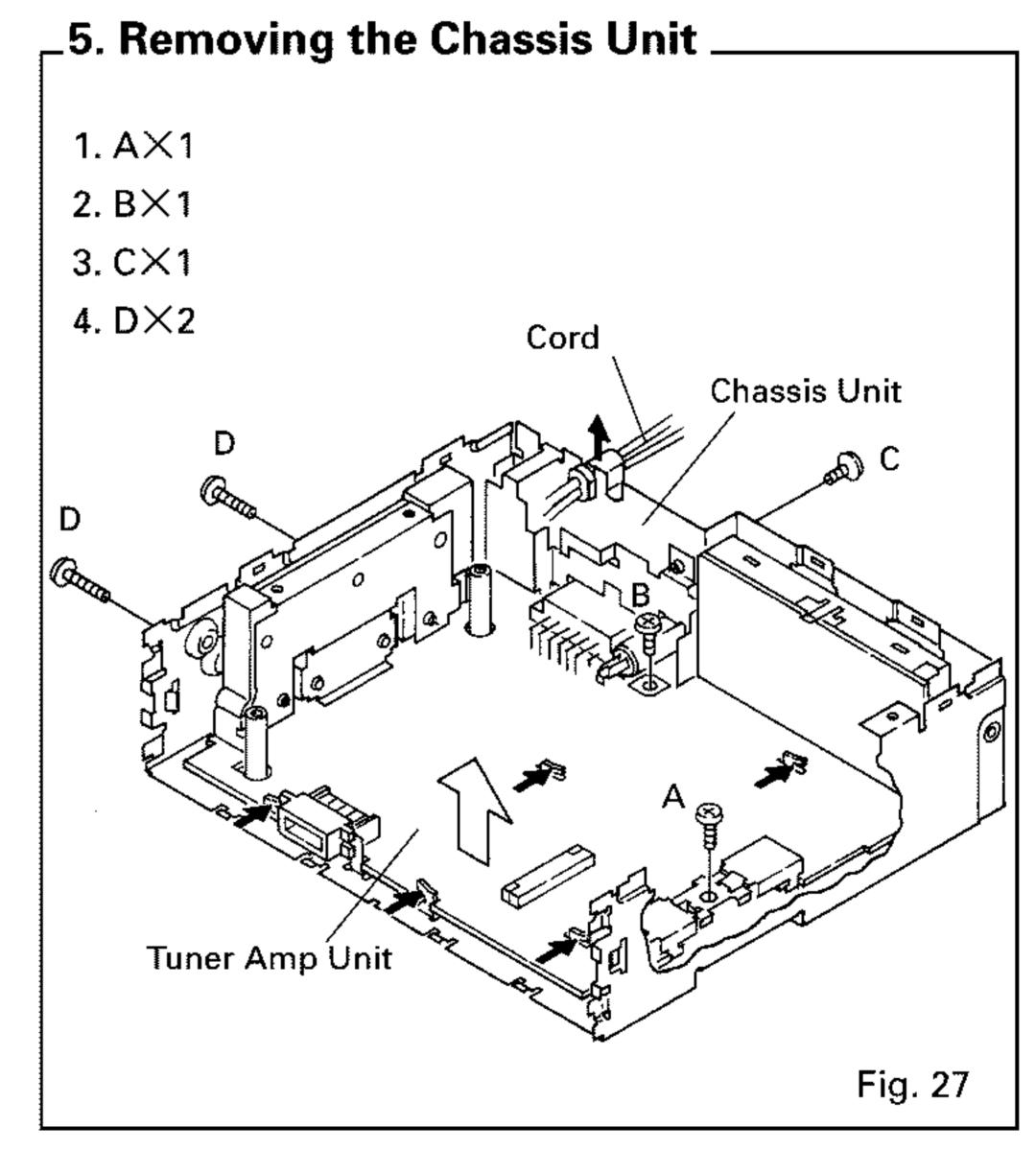
7.2 DIAGNOSIS

7.2.1 DISASSEMBLY

- 1. Removing the Case (Fig.25)
- 2. Removing the Detach Grille Assy(Fig.26)
- 3. Removing the Panel Assy(Fig.26)







7.2.2 TEST MODE

Error Number Indication

The system enters error mode to display the cause of error with a number when the system cannot operate CD or stops operation because of an error. The purpose of this measure is to reduce frequency of calls from users asking help for problems that are caused by incorrect operation by user, as well as to assist analysis and repair in servicing.

(1) Basic means of display

• An error code will be written on DMIN (minute area for display) and DSEC (second area for display) when CSMOD (CD mode area for system) is SERBORM.

The same data will be written on DMIN and DSEC.

DTNO shall be blank as before.

· Display examples of the head unit

Error codes will be displayed as shown below, depending on the capability of LCD. An error number will be displayed in the place of "xx."

•8-digit display ERROR-XX

·6-digit display ERR-XX or Err-XX

• 4-digit display E-XX

With OEM products, display of error codes shall be according to the specificatins of the manufacturer.

(2) Error codes

Error code	Classification	Description	Cause / Detail
10	ELECTRIC	Carriage home failure	Carriage doesn't move to or from the innermost position
			→Home switch failed and/or carriage immobile
11	ELECTRIC	Focus failure	Focus failed
			→Defects, disc upside-down, severe vibration
12	ELECTRIC	SETUP failure	Spindle failed to lock or subcode unreadable
		Subcode failure	→Spindle defective, defect, severe vibration
14	ELECTRIC	Mirror failure	Unrecorded CD-R
			The disc is upside-down, defects, vibration
17	ELECTRIC	Set up failure	AGC protect failed
			→Defects, disc upside-down, severe vibration
19	ELECTRIC	Improper T.BAL adjustment	Value of T.BAL adjustment is out of parameter.
30	ELECTRIC	Search time out	Failed to reach target address
			→Carriage / tracking defective and/or defects
A0	SYSTEM	Power failure	Power overvoltage or short circuit detected
			→Switching transistor defective and/or power abnormal

(4) Number of error codes

One hundred error codes (00 to 99) will be available.

(5) Remarks

- •Error codes are not displayed for the mechanism alone (because CD is OFF when an mechanical error is generated).
- ·When the system cannot read TOC, it is not deemed as an error, and the system continues operation to a certain extent.
- ·Be sure to take measures as shown in the display examples whenever designing a new head unit.
- ·The first digit of an error code has a meaning as follows:

1X: Error related to setup

3X: Error related to the search function

AX: Other errors

New Test Mode

When S-CD is specified as the source, basically the system plays as normal operation. After setup, the system displays the cause and time (absolute time) of an error if focus search is improper, spindle lock is removed, subcode cannot be read, or sound is skipped. During setup, the system displays the operation status of CD control software (internal RAM : CPOINT). The purpose of these displays and functions are to detect aging of servicing, as well as to improve efficiency of defect analysis.

(1) How to enter NEW TEST Mode

- 1. Reset the system by pressing keys (depending on the product) to enter the conventional Test mode.
- 2. Select S-CD as the source by pressing the source or CD key, then inserting a disc. Confirm that the regulator is OFF. Press the Switch Jump Mode key.
 - 3. After that, the system will stay in the new Test mode, regardless of whether S-CD is OFF or ON. To exit from the new Test mode, reset the system.

See the test mode flow chart Page 58.

(2) Relations of keys

keys	Tes	t Mode	New Test Mode		
	Regulator OFF	Regulator ON	PLAY in progress	Error Protection	
BAND	To Regulator ON	To Regulator OFF		Time / Err No.select	
→		FWD-Kick	FF / TR+		
+		REV-Kick	REV / TR-		
1		Tracking Close	Scan		
2		Tracking Open	RPT		
3		Focus Close	RDM		
······		Focus Open			
		Jump Off			
6	To New Test Mode	Jump Mode select	Auto / Manu	T.No. / Time select	

Operations, such as EJECT, CD ON/OFF are performed normal mode.

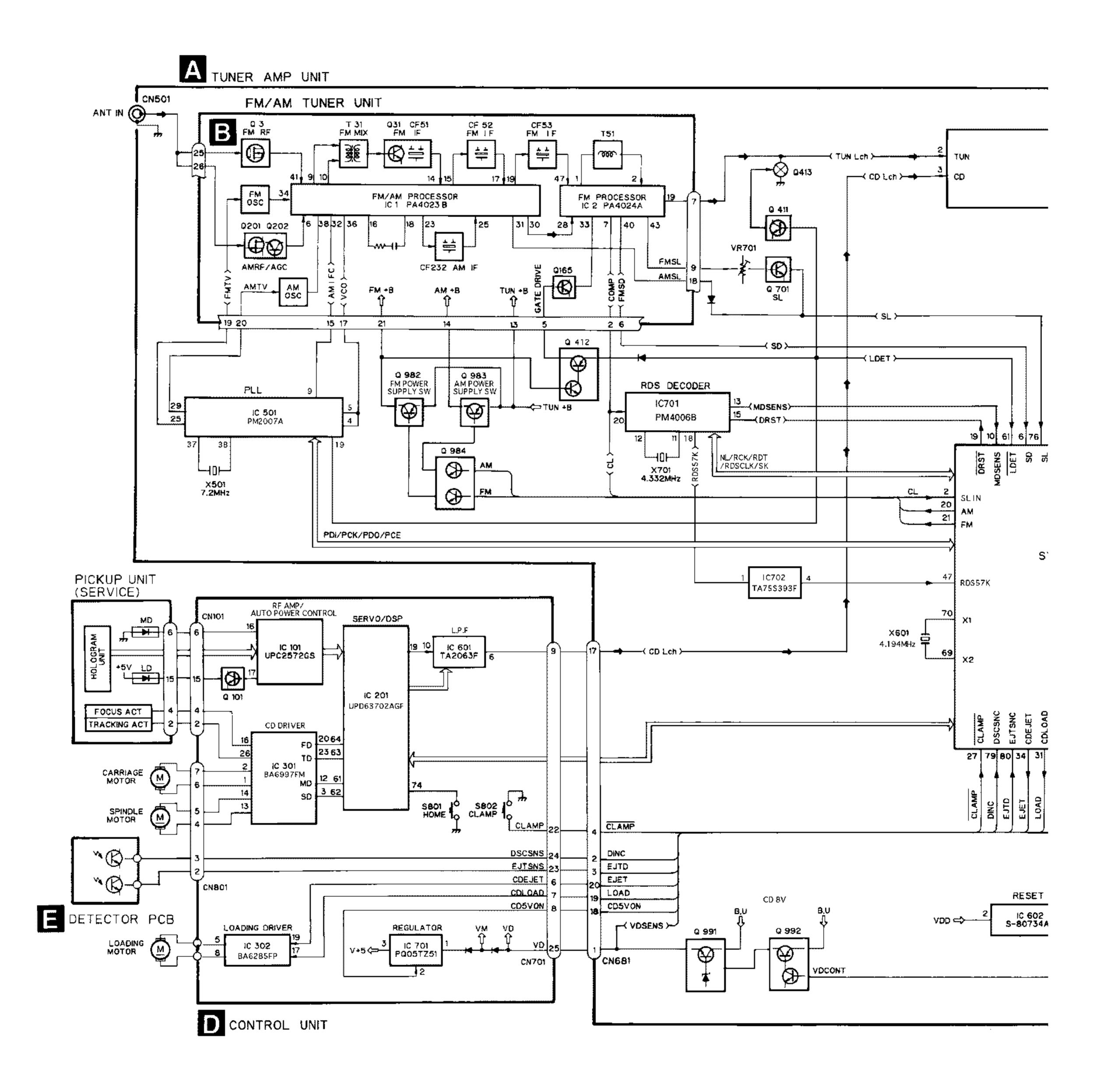
(3) Error Cause, Error Code

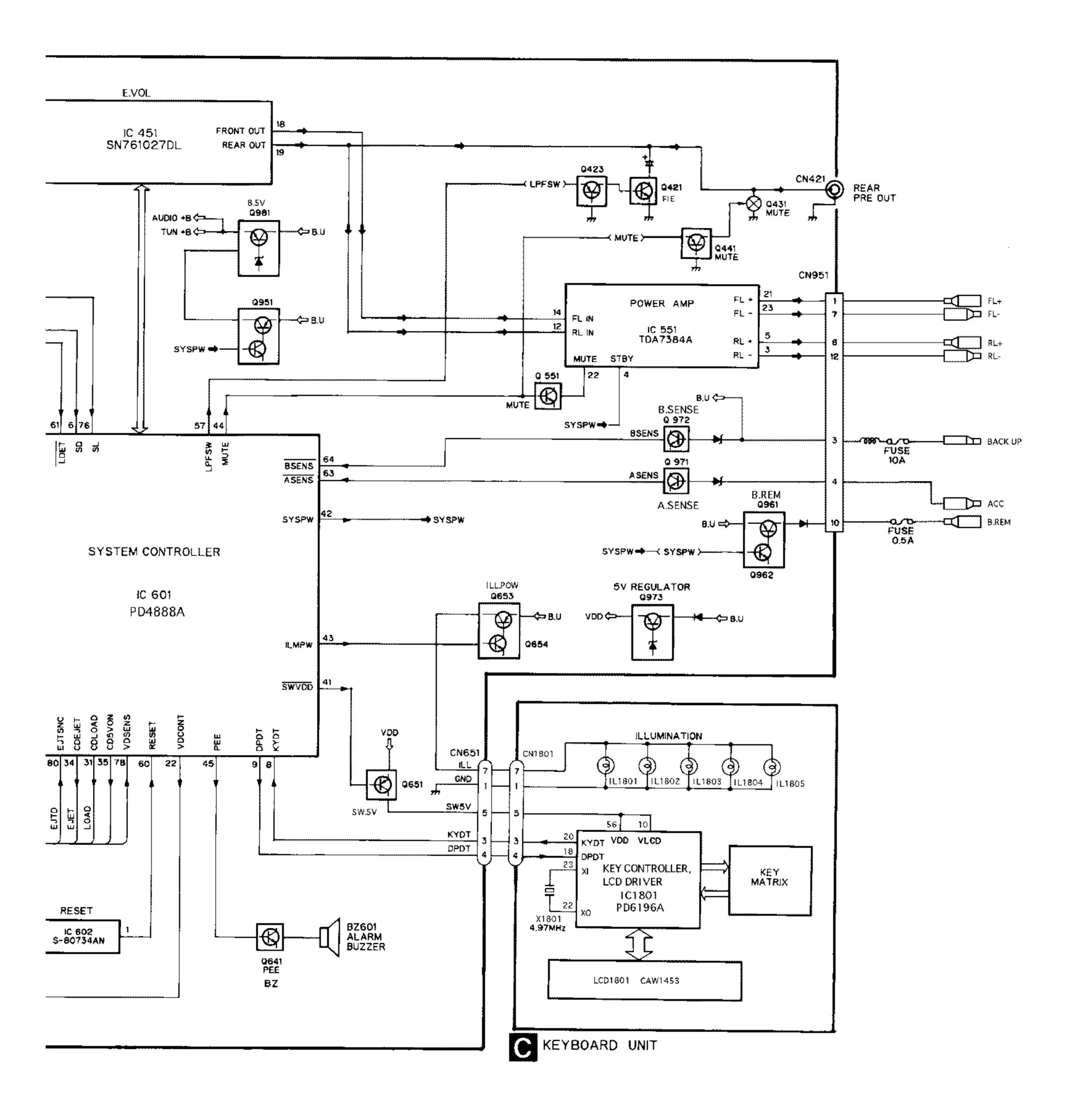
Code	Classification	Description	Cause / Details
40	ELECTRIC	Put out of focus	FOK=Low has continued for 100 msec
			→Damaged or soiled disc. vibration, or detective servo
41	ELECTRIC	Spindle unlock	LOCK=has continued for 100 msec
			→Damaged or soiled disc. vibration, or detective servo
42	ELECTRIC	Failed to read subcode	The system could not read subcode for 100 msec
			→Damaged or soiled disc. vibration, or detective servo
43	ELECTRIC	Sound skipped	The last-address-memory function activated
			→Damaged or soiled disc. vibration, or detective servo

There will be no mechanical error during aging. Error codes should be displayed in the same manner as in Normal mode.

7.3 BLOCK DIAGRAM

● DEH-345R/X1M/EW





8. OPERATIONS AND SPECIFICATIONS

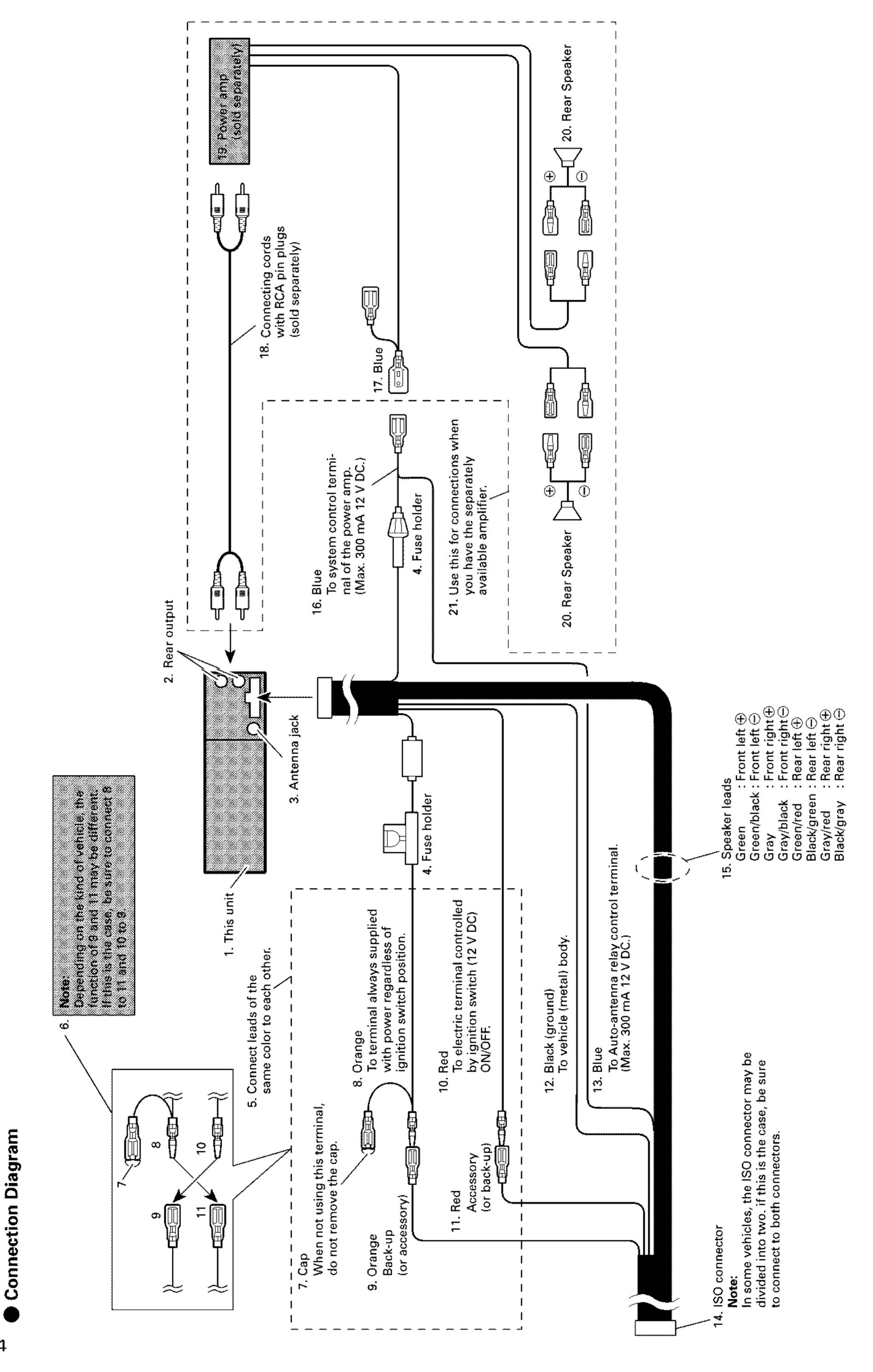


Fig. 29

Tuner Source and Band

Push the SOURCE button to select Tuner.

The program service name or frequency appears on the display.

("\(\subset \)" indicator lights when stereo station selected.)

Use the BAND button to select the desired band.

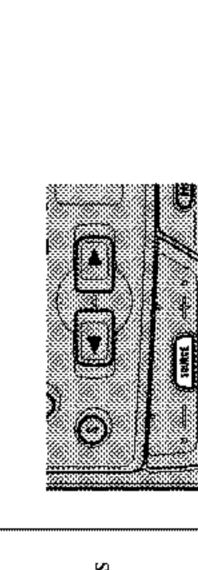
(F1, F2, MW/LW)

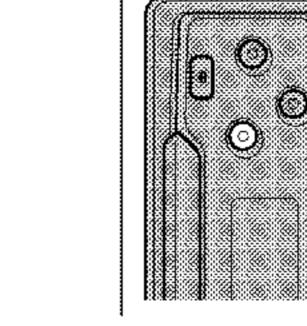
AF Function Switching

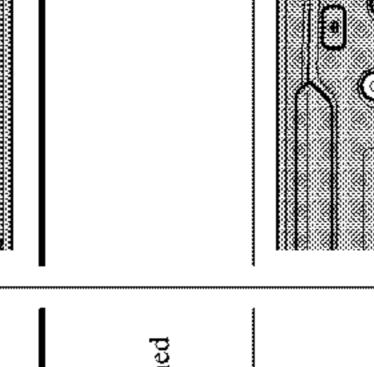
This tuner/CD player's AF function can be switched ON and OFF. AF should be switched OFF for normal tuning operations.

Press the AF button to switch AF OFF. "AF" disappears.

Press the AF button again to switch AF ON. "AF" appears on the display.







75

ner Operation

Manual and Seek Tuning

Both Manual (step-by-step) and Seek (automatic) tuning are available.

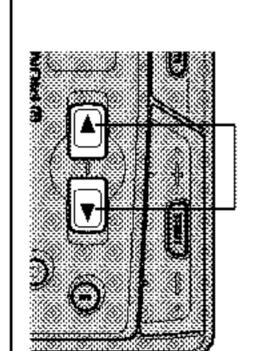
Press the (◄) and (►) buttons
simultaneously to switch alternately between
the Manual and Seek tuning modes.
 The "MANU" indicator lights when Manual

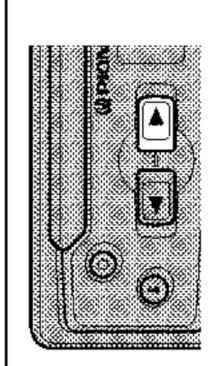
 Press the (►) button to tune the receiver to a higher frequency.

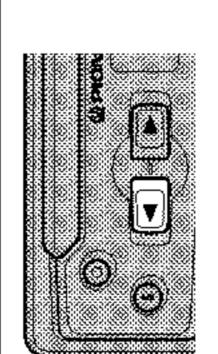
tuning is selected and turns OFF when Seek tuning is selected.

MANU ON (Manual tuning):
The frequency changes step by step.
MANU OFF (Seek Tuning):
The tuner automatically seeks out and receives broadcasting stations.

Press the (◀) button to tune the receiver to a lower frequency.







Local Seek Tuning

This mode selects only stations with especially strong signals.

To Select Local Mode

Press the Local button to enter the Locamode.

"LOC.S" indicator lights.

To cancel the Local mode, press the Local button again.

Adjusting Local Seek Sensitivity

The Sensitivity can be adjusted in 4 steps FM and 2 steps for MW/LW.

1. Depress the Local button for 2 seconds

longer.

The current Local Seek sensitivity

The current Local Seek sensitivity (eg. "LOC-2") is displayed.

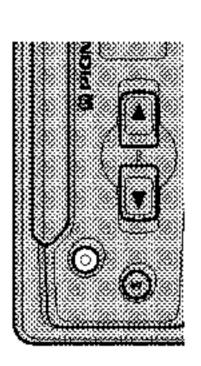
Repeat to switch in and out of the Local Seek Sensitivity setting mode.

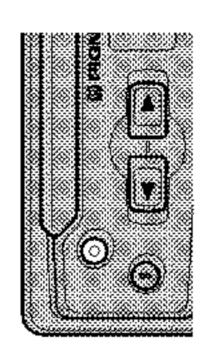
The display reverts to the previous indication after 5 seconds of inactivity.

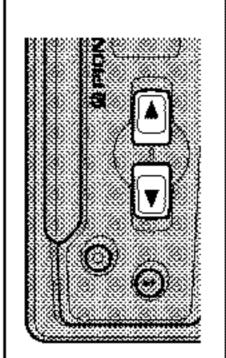
 Use the (◄) button or the (►) button to raise or lower the sensitivity of Local Mode Seek

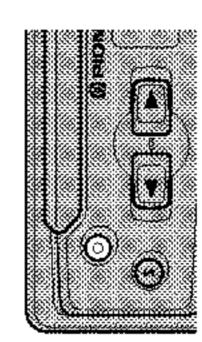
tuning.

3. Press the Local button to return normal display.









idio Adjustment

The audio modes are selected for adjustment with the S button. Volume adjustment is the default mode. When another mode is selected for adjustment, the setting returns to the Volume mode after 8 seconds.

Volume Adjustment

Press the (+) button or the (-) button repeatedly to raise or lower the volume. The display shows low to high volumes from "VOL 00" to "VOL 30."

Note: Holding down the buttons increases or decreases the volume level more rapidly.

U

Change the Setting Mode

Each time the S button is pressed, the display message and the functions of the (+), (-), (◄) and (►) buttons change in the following order:

F. I. E. mode — Fader/Balance — Bass/Treble — Loudness.

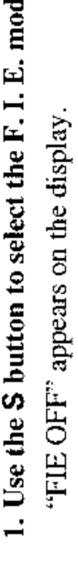
Using the F. I. E. function

The F. I. E. (Front Image Enhancer) function is a simple method of enhancing front imaging by cutting mid- and high-range frequency output from the rear speakers, limiting their output to low-range frequencies.

Note: When the F. I. E. function is deactivated, the rear speakers output sound in all frequencies, not only bass sounds.

Reduce the volume before disengaging F. I. E. to prevent a sudden increase in volume.





After adjustment use the S button to return to the normal display.

Press the (▶) button to activate the F. I. E. function.

"FIE ON" appears and "FIE" indicator lights on the display.

To cancel the F. I. E. function, press the (◄) button.

The display message returns to "FIE OFF"

3. Use the S button to select the Fader/Balance

This function adjusts the front and rear speal volumes for better balanced listening.

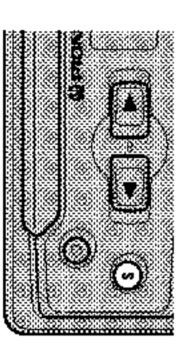
Balance Adjustment

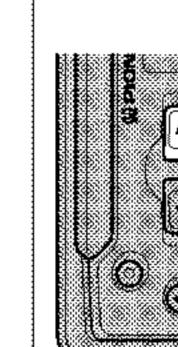
The function allows you to select a Fader/Balance setting that provides ideal listening conditions in all occupied seats.

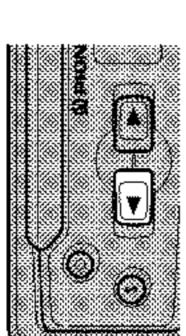
Use the S button to select the Fader/Balance mode.

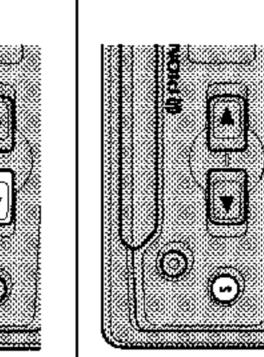
"FAD" or "BAL" appears on the display.

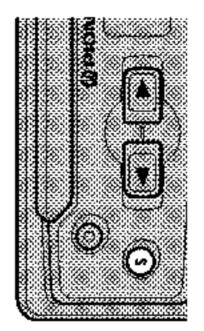
After adjustment use the S button to return the normal display.











2. Press the (+) button or the (-) button to shift the balance progressively to the front or rear speakers.

"FAD F15" ~ "FAD R15" is displayed as it moves from front to rear.

Note: "FAD 0" is the proper setting when 2 speakers are in use. Press the (◄) button or the (►) button to shift the balance to the left or right speaker, respectively. "BAL R9" is displayed as it moves

from left to right.

"BAL L9" ~

0

Bass/Treble Adjustment

This tuner/CD player is equipped with two tone adjustment modes, the Bass Adjustment and Treble Adjustment modes.

1. Use the S button to select tone adjustment

After adjustment use the S button to return to the normal display. "BAS" or "TRE" appears on the display.

Press the (◄) button or the (►) button to select "Bass Adjustment mode" or "Treble Adjustment mode".

0

respectively, to increase or decrease the intensity of the bass or treble, whichever is 3. Press the (+) button or the (-) button, The display shows "+6"-"-6".

+

0

4. Repeat steps 2-3 above for the other Bass or Treble Adjustment mode.

Loudness Adjustment

The Loudness function compensates for deficiencies in the low and high sound ranges at low volume.

1. Use the S button to select the Loudness adjustment mode.

After selection use the S button to return to "LOUD OFF" appears on the display.

normal display.

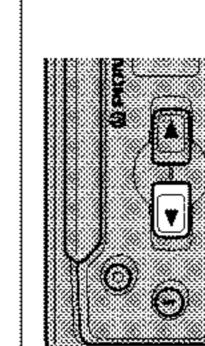
Press the (►) button to activate the Loufunction.

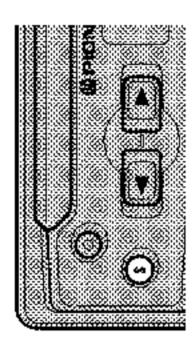
"LOUD ON" appears on the display.

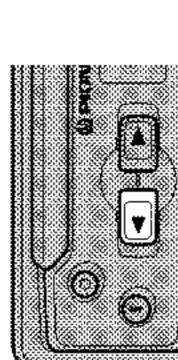
To cancel the Loudness function, press the

(▲) button.

The display message returns to "LOUD OF









What is RDS?

RDS (Radio Data System) is a system for transmitting data signals along with FM programs. These data signals, which are inaudible, provide a variety of features such as: program service name, program type display, traffic announcement standby, automatic tuning, and program type tuning, intended to aid radio listeners in tuning to a desired station.

- RDS service may not be provided by all stations.
- RDS functions, like AF and TA, are only active when your radio is tuned to RDS

Display Name Service Program

With this function, the names of networks/stations providing RDS services replace the frequency on the display a few seconds after they are tuned in.

Displaying the Frequency

Hold down the BAND button for 2 seconds or longer. The frequency of the current station is displayed until the button is released.



Displaying PTY Information

PTY information for the currently tuned station Press the TA button for 2 seconds or longer. appears on the display for 8 seconds.



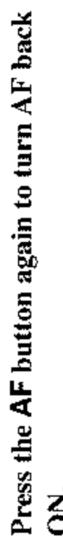
AF Function

in the network which is broadcasting a stronger signal when there are problems with reception of the currently turned station or better reception The AF (Alternative Frequencies search) function is used to search for other frequencies in the same network as the currently tuned and retuneds the receiver to another frequency frequency. It automatically mutes the sound is possible on a different frequency.

Activating/deactivating the AF Funtion

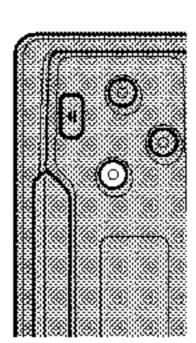
AF is set to ON by default.

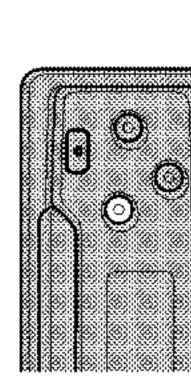
- Press the AF button to turn AF to OFF.
- The "AF" indicator light is extinguished.



The "AF" indicator lights.

- Notes:
- RDS data for the station reveived differs from preset number appears on the display if the When you recall a preset station, the tuner may update the preset station with a new frequency from the station's AF list. No that for the originally input station.
 - Sound may be temporarily interrupted by another program during an AF frequency
- independently for each FM band. AF can be switched ON or OFF
- AF tunes the receiver only to RDS stations when you use Seek tuning or BSM Auto Memory with the "AF" indicator ON.
 - When the tuner is tuned to a non-RDS station, the "AF" indicator flashes.







Using RDS Functions

Seek function

The tuner searches for another frequency broadcasting the same programing. "PI SEEK" appears on the display and the radio volume is muted during a PI Seek. The muting is discontinued after completion of the PI Seek, whether or not the PI seek has succeded. If the PI seek is unsuccessful, the tuner returns to the previous frequency.

Auto PI Seek

If the tuner fails to locate a suitable alternative frequency or the broadcasting signal is too weak for proper reception, the PI Seek will automatically start.

Preset Station PI Seek

When preset stations cannot be recalled, as when traveling long distances, the unit can be set to perform PI Seek also during preset recall. The default setting for PI Seek is OFF.

To switch PI Seek ON, hold down button 2
 while turning the ignition key from OFF
 (Lock) to ON (ACC).

To switch PI Seek OFF, repeat the preceding operation.

REG Function

When AF is used to retune the tuner automatically, REG (regional) limits the selection to stations broadcasting regional programming.

Activating/Deactivating REG

The REG function can be turned ON or OFF independently for each FM band.

 To activate REG, press the AF button for 2 seconds or longer in an FM band.
 The "REG" indicator lights. To exit the REG mode, press the AF button for 2 seconds or longer again.

The "REG" indicator is extinguished.

Notes:

 Regional programming and regional networks are organized differently depending on the country (i.e., they may change according to the hour, state or broadcast area).

 The preset number may disappear on the display if the tuner tunes in a regional station which differs from the originally set station.

TA Function

The TA (Traffic Announcement standby) function to let you tune in traffic announcements automatically, no matter what source (tuner or built-in CD player) you are listening to. The TA function can be activated for either a TP station (a station that broadcasts traffic information) or an EON TP station (a station carrying information which cross-references TP stations).

Activating/Deactivating the TA Function

Tune in a TP or EON TP station.

The "TP" indicator lights when the tuner is tuned to a TP station, and both the "EON" and "TP" indicators light when it is tuned to an EON TP station.

Press the TA button.

The "TA" indicator lights, indicating that tuner is waiting for traffic announcements.

Press the TA button again when no traffic announcement is being received to deactivate the TA function.

Stes:

 Only the (+), (-), TA, AF and SOURCE buttons can be used during traffic announcement reception.

 The system switches back to the original source following traffic announcement

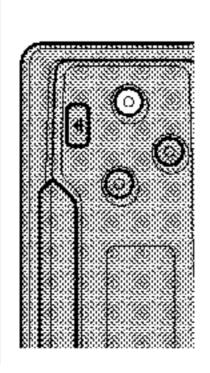
reception.

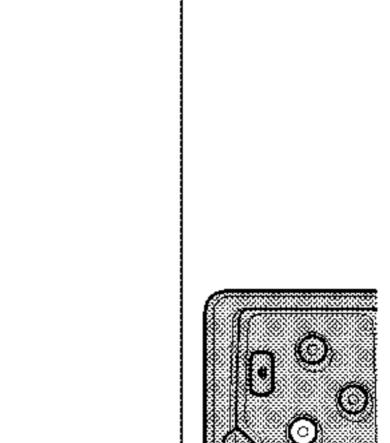
 The TA function can be activated from the built-in CD player mode if the tuner was last set to the FM band but not if it was last set to the MW/LW band.

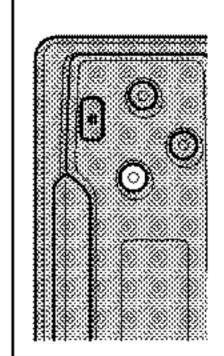
4. If the tuner was last set to FM, turning on TA function lets you operate other tuning functions while listening to a CD.

Only TP or EON-TP stations are tuned in the Seek Tuning mode when the "TA" indicator

Only TP or EON-TP stations are stored
 BSM when the "TA" indicator is ON.







Functions RDS

Canceling Traffic Announcements

announcement is being received to cancel the announcement and return to the original Press the TA button while a traffic

remains in the TA mode until the TA button is The announcement is canceled but the tuner pressed again.

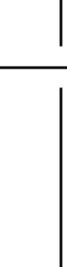
Adjusting the TA Volume

When a traffic announcement begins, the volume adjusts automatically to a preset level to enable you to hear the announcement clearly.

Using the (+) or (-) buttons to set the volume by adjusting it during traffic announcement reception.

Θ

The newly set volume is stored in memory and recalled for subsequent traffic announcements.



indicator is extinguished due to a weak signal, a 5 second beep sounds to remind you to select

another station.

About 30 seconds after the "TP" or "EON"

TP Alarm function

In the built-in CD player mode, the tuner automatically seeks out the TP station with the strongest signal in the current area 10 (or 30)* seconds after "TP" disappears from the display.

If you are listening to the tuner, tune in

another TP station.

10 seconds

* Time taken before Seek begins.

30 seconds

TA, AF functions ON

TA function ON

Function

The PTY function enables you to select stations by the type of programming they broadcast

for emergency broadcasts (PTY Alarm).

 PTY code program types are as follows: NEWS: News.

EDUCATE: Educational programs.

CULTURE: Programs concerned with any aspect of national or regional cultusCIENCE: Programs about nature,

science and technology.

VARIED: Light entertainment progr

POP MUS: Popular music. 10.

L. CLASS: Light classical music. CLASSICS: Serious classical music.

WEATHER: Weather reports/ can't be categorized.

commerce, trading etc.

20. RELIGION: Religion affairs programs or 19. SOCIAL: Social affairs programs.

21. PHONE IN: Phone in based programs.

23. LEISURE: Programs about hobbies

recreational activities.

24. JAZZ: Jazz music based programs. 25. COUNTRY: Country music based

programs. NAT MUS: National music based

programs. 27. OLDIES: Oldies music, 'Golden age

based programs. 28. FOLK MUS: Folk music based prog

If a PTY code of zero is received from a

program contents.

3. If the signal is too weak for this product to pick up the PTY code, "NO PTY" will be

(PTY Search). It also provides automatic to

AFFAIRS: Current affairs.

INFO: General information and advi

SPORT: Sports programs.

DRAMA: All radio plays and serials

ROCK MUS: Contemporary modern music EASY MUS: Easy listening music.

OTH MUS: Other types of music, w

Meteorological information. 16.

17. FINANCE: Stock market reports,

CHILDREN: Children's programs.

22. TOURING: Travel programs, not for

announcements about traffic problem.

20. FULK MUN: Folk music based programs 29. DOCUMENT: Documentary programs.

station, "NONE" will be displayed. This indicates that the station has not defined

displayed.

To stop CD playback, press the SOURCE button to select tuner or turn the source

When the built-in CD player is selected again, playback begins at approximately the same place (track/playing time).

Precaution:

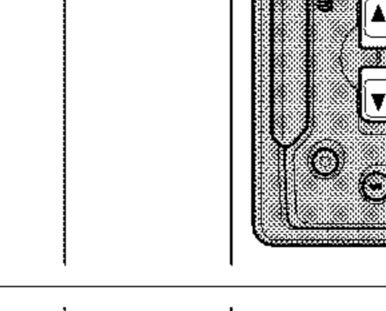
- * Inserting more than one disc at a time may damage the built-in CD player.
- * Discs left partially inserted after ejection may incur damage or fall out.
 - * If a disc cannot be inserted fully or playback fails, make sure the recorded side is down, push the Eject button and check the disc for damage before reinserting it.
- * If a CD is inserted with the recorded side up, it will be ejected automatically after a few moments.
- * If the built-in CD player cannot operate properly, an error message (such as ERROR-14) appears on the display.



Track Search and Fastforward/Reverse Switching the Mode

simultaneously to switch between "MANU" indicator ON and OFF. Press the (\blacktriangleleft) and (\blacktriangleright) buttons

When performing Fast-forward/Reverse operations, switch the "MANU" indicator ON When performing a Track Search, switch the "MANU" indicator OFF.



This feature permits you to select a specific track on the CD by number.

Track Search

Hold down the button continuously for high-speed forward or reverse track searching. The track number and playing time change appropriately on the display. Press the (◄) button or the (▶) button to

reverse or advance track by track.

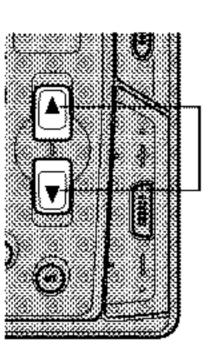
Fast-forward/Reverse

This feature enables you to advance or revers at high speed between tracks.

Press the (◄) or (▶) button to reverse or fast-forward through tracks.

number and playing time change appropriately When the beginning or end of a track is reach playback skips to the next track. The track on the display.

Note: The audio is audible as a high-pitched screeching during fast-forward and



Jsing the Built-in CD Player

Pause

Press button 1 to stop playback temporarily.
 "PAUSE" is displayed.

Push the button again to restart playback.

Built-in CD Player Repeat Modes

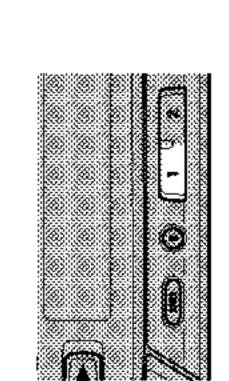
The built-in CD player offers two repeat modes: Disc Repeat (normal play), the default mode, and One-track Repeat. • To select One-track Repeat, press button 2.

"RPT" appears on the display.

Note: When Track Number Search or fast forward/reverse is performed, the mode returns to the default Disc Repeat mode (normal play).

Press the button 2 again to return to the Disc Repeat mode (normal play).

"RPT" disappears.

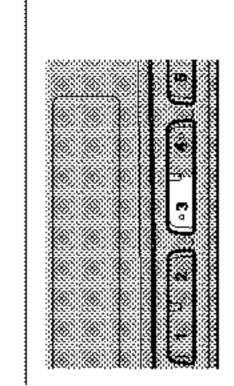


Random Play

The Random Play mode plays the tracks on CD in random order for variety.

To enter the Random Play mode, press button 3.

"RDM" appears on the display.



Press button 3 again to cancel Random Plants

Note: Since playback is random, the same to may be repeated consecutively.



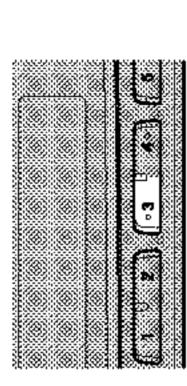
Scan Play plays the first 10 seconds or so o each track on a CD in succession.

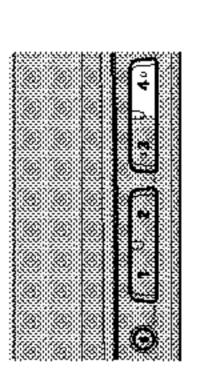
Press button 4 to start Scan Play. "SCAN" appears on the display.

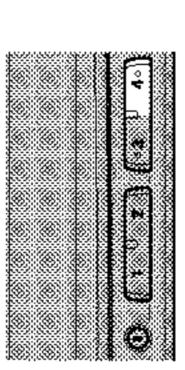


Playback of the current track continues.

Note: Scan Play is canceled automatically after all the tracks on a disc have been scanned







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DEH-345R,344R,343R

specifications

General Power source 14.4 V DC (10.8 — 15.1 V allowable) Grounding system Negative type Max. current consumption 10.0 A Dimensions 178 (W) × 50 (H) × 150 (D) mm (front face) 188 (W) × 58 (H) × 22 (D) mm Weight 1.5 kg

Amplifier ————————————————————————————————————
Maximum power output
Continuous power output
(DIN45324, +F
Load impedance
Voutput impedance
Tone controls
(Bass) ±12 dB (100 Hz)
(Treble) ±12 dB (10 kHz)
Loudness contour
(volume: -30 dB)

Specifications

CD player
System System Compact disc audio system
Usable discs Compact disc
Signal format Sampling frequency: 44.1 kHz
Frequency characteristics
Signal-to-noise ratio
Dynamic range 90 dB (1 kHz)
Number of channels

-IVI tuner
Frequency range
y
50 dB quieting sensitivity 16 dBf (1.7 μV/75 Ω, mono)
Frequency response
Stereo separation

Note: Specifications and the design are subject to possible modification without notice due to improvements.